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PA11 Precimid1180 Precimid1180 BLK

Features

- Impact resistance
- High reusability
- Excellent toughness
- Heat deformation resistance

Application

- Thermal load environment
- Parts with good mechanical properties

Specification

Mechanical properties	Test method	Metric
Part Color	Visual	Natural White or Black
Density	DIN 53466	0.96g/cm³
Elongation at break	ASTM D638	45%
Flexural Strength	ASTM D790	45 MPa
Flexural Modulus	ASTM D790	1,200 MPa
Heat Deflection Temperature 0.45MPa	ASTM D648	193 ℃
Heat Deflection Temperature 1.82MPa	ASTM D648	64℃
Tensile Strength	ASTM D638	47 MPa
Tensile Modulus	ASTM D638	1,550 MPa
IZOD Impact Strength with notch	ASTM D256	85 J/M
IZOD Impact Strength without notch	ASTM D256	No rupture occurred

Note: 1. The above parameters based on specified test method and heating energy might not be achieved with different conditions.
2. 15% deviation of test result might happen on different testing platform.
3. The above data are subject to update without prior notice.

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Polymer Powder
SLS Part Manufacturing

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PA12 Precimid1171Pro

Features

- Size Accuracy
- High Strength
- High Reuse Rate
- Biocompatible

Application

- Complicated Structure
- Food Container
- Medical Instruments

Specification

Mechanical properties	Test method	Metric
Part Color	Visual	White
Density	DIN 53466	0.95g/cm³
Elongation at break	ASTM D638	8-15%
Flexural Strength	ASTM D790	47 MPa
Flexural Modulus	ASTM D790	1,700 MPa
Heat Deflection Temperature 0.45MPa	ASTM D648	167℃
Heat Dedflection Temperature 1.82MPa	ASTM D648	58℃
Tensile Strength	ASTM D638	46 MPa
Tensile Modulus	ASTM D638	1,700 MPa
IZOD Impact Strength with notch	ASTM D256	51 J/M
IZOD Impact Strength without notch	ASTM D256	338 J/M

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PA12 Precimid1171 FR BLK

Features

- Material passes UL94 V0
- Best surface & accuracy finish of available fire retardant materials
- Accurate size

Application

- Aerospace applications requiring excellent mechanical strength
- Wire insulation
- Parts around the vehicle engine

Specification

Mechanical properties	Test method	Metric
Part Color	Visual	Ash Black
Density	DIN 53466	1.03 g/cm³
Elongation at break	ASTM D638	10 %
Flexural Strength	ASTM D790	53 MPa
Flexural Modulus	ASTM D790	1,462 MPa
Heat Deflection Temperature 0.45Mpa	ASTM D648	188 ℃
Heat Dedflection Temperature 1.82Mpa	ASTM D648	120 ℃
Tensile Strength	ASTM D638	38 MPa
Tensile Modulus	ASTM D638	2,077 MPa
IZOD Impact Strength with notch	ASTM D256	30 J/M
IZOD Impact Strength without notch	ASTM D256	221 J/M

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PA12 Precimid1171Pro AF40

Features

- High strength
- 40% aluminum powder
- Metal color
- Wear resistance
- High reusability

Application

- Products with metal texture
- Thermal load environment
- Parts with good mechanical properties are required

Specification

Mechanical properties	Test method	Metric
Part Color	Visual	Metallic Grey
Density	DIN 53466	1.36g/cm³
Elongation at break	ASTM D638	1.5-3.5%
Flexural Strength	ASTM D790	54 MPa
Flexural Modulus	ASTM D790	1,994 MPa
Heat Deflection Temperature 0.45MPa	ASTM D648	167°C
Heat Deflection Temperature 1.82MPa	ASTM D648	127°C
Tensile Strength	ASTM D638	32 MPa
Tensile Modulus	ASTM D638	1,700 MPa
IZOD Impact Strength with notch	ASTM D256	35 J/M
IZOD Impact Strength without notch	ASTM D256	241 J/m

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PA12 Precimid1171 GF30 FR BLK

Features

- High strength
- 30% of glass
- Pass UL94 VO

Application

- Structural Part
- High rigidity requirements
- Wear-resisting assembly
- Tools

Specification

Mechanical properties	Test method	Metric
Part Color	Visual	Ash Black
Density	DIN 53466	1.25 g/cm³
Elongation at break	ASTM D638	2.60 %
Flexural Strength	ASTM D790	63 MPa
Flexural Modulus	ASTM D790	2,800 MPa
Heat Deflection Temperature 0.45MPa	ASTM D648	170 ℃
Heat Deflection Temperature 1.82MPa	ASTM D648	133 ℃
Tensile Strength	ASTM D638	40 MPa
Tensile Modulus	ASTM D638	3,500 MPa
IZOD Impact Strength with notch	ASTM D256	18 J/M
IZOD Impact Strength without notch	ASTM D256	82 J/M

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PA12 Precimid1172Pro Precimid1172Pro BLK

Features

- Good comprehensive perfromance
- Stable color
- Accurate size
- High reusability

Application

- Structural parts
- Functional shells
- Complex assembilies
- Cultural and creative products
- Drones

Specification

Mechanical properties	Test method	Metric
Part Color	Visual	Bright White or Black
Density	DIN 53466	0.95g/cm³
Elongation at break	ASTM D638	8-17 %
Flexural Strength	ASTM D790	51 MPa
Flexural Modulus	ASTM D790	1,280 MPa
Heat Deflection Temperature 0.45MPa	ASTM D648	180 ℃
Heat Deflection Temperature 1.82MPa	ASTM D648	99 ℃
Tensile Strength	ASTM D638	46 MPa
Tensile Modulus	ASTM D638	1,840 MPa
IZOD Impact Strength with notch	ASTM D256	40 J/M
IZOD Impact Strength without notch	ASTM D256	402 J/M

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PA12 Precimid1172Pro GF30 Precimid1172Pro GF30 BLK

Features

- High strength
- 30% glass
- Heat deformation resistance
- High reusability

Application

- High rigidity requirements
- Wearing and wear-resistant environment
- High temperature working conditions

Specification

Mechanical properties	Test method	Metric
Part Color	Visual	Grayish Yellow or Ash Black
Density	DIN 53466	1.17g/cm³
Elongation at break	ASTM D638	5-8%
Flexural Strength	ASTM D790	71 MPa
Flexural Modulus	ASTM D790	2,241 MPa
Heat Deflection Temperature 0.45Mpa	ASTM D648	184.4 ℃
Heat Deflection Temperature 1.82Mpa	ASTM D648	126℃
Tensile Strength	ASTM D638	32 MPa
Tensile Modulus	ASTM D638	2,398 MPa
IZOD Impact Strength with notch	ASTM D256	29 J/M
IZOD Impact Strength without notch	ASTM D256	264 J/M

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Carbon Fiber Reinforced PA12
Precimid1174Pro CF

Features

- Light weight
- Carbon fiber reinforced
- Excellent strength and hardness

Application

- Drones
- Parts with high rigidity

Specification

Mechanical properties	Test method	Metric		
Part Color	Visual	Ash Black		
Density	DIN 53466	1.09 g/cm³		
Elongation at break	ASTM D638	X	Y	Z
		8 %	9.5 %	1.7 %
Flexural Strength	ASTM D790	X	Y	Z
		135 MPa	100 MPa	66 MPa
Flexural Modulus	ASTM D790	X	Y	Z
		6,000 MPa	4,500 MPa	3,000 MPa
Heat Deflection Temperature 0.45MPa	ASTM D648	172 ℃		
Heat Deflection Temperature 1.82MPa	ASTM D648	172 ℃		
Tensile Strength	ASTM D638	X	Y	Z
		88 MPa	63 MPa	36 MPa
Tensile Modulus	ASTM D638	X	Y	Z
		9,000 MPa	6,400 MPa	3,500 MPa
IZOD Impact Strength without notch	ASTM D256	X	Y	Z
		35 J/M	35 J/M	22 J/M
IZOD Impact Strength with notch	ASTM D256	X	Y	Z
		6.3 J/M	6.8 J/M	3.5 J/M
Specific Surface Resistivity	IEC 62631-3-2	Typical Value (X-direction)		Typical Value (Z-direction)
		5kΩ		5kΩ

Note: 1. The above parameters based on specified test method and heating energy might not be achieved with different conditions.
2. 15% deviation of test result might happen on different testing platform.
3. The above data are subject to update without prior notice.
4. The properties of parts manufactured using aditive manufacturing technology (e.g laser sintering, stereolithography,fused deposition Modeling, 3D printing) are due to their layer-by-layer production, to some extent direction dependent, This has to be considered when designing the part and defining the build orientation

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PA12 Precimid1174Pro GF40 BLK

Features

- High strength
- 40% of glass
- Precise dimension
- High reusability

Application

- Structural Part
- High rigidity requirements
- Wear-resisting assembly
- Tools

Specification

Mechanical properties	Test method	Metric
Part Color	Visual	Ash Black
Density	DIN 53466	1.23 g/cm³
Elongation at break	ASTM D638	4 %
Flexural Strength	ASTM D790	66 MPa
Flexural Modulus	ASTM D790	3,000 MPa
Heat Deflection Temperature 0.45MPa	ASTM D648	172 ℃
Heat Deflection Temperature 1.8MPa	ASTM D648	112 ℃
Tensile Strength	ASTM D638	43 MPa
Tensile Modulus	ASTM D638	2,900 MPa
IZOD Impact Strength with notch	ASTM D256	45 J/M
IZOD Impact Strength without notch	ASTM D256	370 J/M

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PA12 Precimid1176Pro BLK

Features

- Good comprehensive perfromance
- Stable color
- Accurate size
- High reusability

Application

- Structural parts
- Functional shells
- Complex assembilies
- Cultural and creative products
- Drones

Specification

Mechanical properties	Test method	Metric
Part Color	Visual	Black
Density	ISO1183-1:2019:A	0.95 g/cm³
Elongation at break	ISO 527-1:2012	9.3 %
Flexural Strength	ISO 178:2019	67 MPa
Flexural Modulus	ISO 178:2019	1,710 MPa
Heat Deflection Temperature 0.45MPa	ISO 75-1:2013	165 ℃
Heat Deflection Temperature 1.8MPa	ISO 75-1:2020	99 ℃
Tensile Strength	ISO 527-1:2019	44.3 MPa
Tensile Modulus	ISO 527-1:2019 & ISO 527-1:2012	1,800 MPa
IZOD Impact Strength with notch	ISO 180:2019	4.2 kJ/M^2
IZOD Impact Strength without notch	ISO 180:2019	23 kJ/M^2

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PA12 Precimid1176Pro GF30 BLK

Features

- High strength
- 30% glass
- Heat deformation resistance
- High reusability

Application

- High rigidity requirements
- Wear-resistant environment
- High temperature working conditions

Specification

Mechanical properties	Test method	Metric
Part Color	Visual	Black
Density	ISO1183-1:2019:A	1.25 g/cm³
Elongation at break	ISO 527-1:2012	6.8 %
Flexural Strength	ISO 178:2019	62.6 MPa
Flexural Modulus	ISO 178:2019	2,340 MPa
Heat Deflection Temperature 0.45MPa	ISO 75-1:2013	168 ℃
Heat Deflection Temperature 1.8MPa	ISO 75-1:2020	90 ℃
Tensile Strength	ISO 527-1:2019	41.7 MPa
Tensile Modulus	ISO 527-1:2019 & ISO 527-1:2012	2,300 MPa
IZOD Impact Strength with notch	ISO 180:2019	4.6 kJ/M^2
IZOD Impact Strength without notch	ISO 180:2019	19 kJ/M^2

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PA6X BLK

Features

- Good comprehensive performance
- Thermal deformation

Application

- Functional shells
- Complex assembilies
- Automobile engine
- Structural parts

Specification

Mechanical properties	Test method	Metric
Part Color	Visual	Grey
Density	DIN 53466	N/A kg/m³
Elongation at break	ASTM D638	17 %
Flexural Strength	ASTM D790	75 N/mm²
Flexural Modulus	ASTM D790	1,500 MPa
Heat Deflection Temperature 0.45Mpa	ASTM D648	190 °C
Heat Deflection Temperature 1.82Mpa	ASTM D648	70 °C
Tensile Strength	ASTM D638	51 MPa
Tensile Modulus	ASTM D638	2,000 MPa
IZOD Impact Strength with notch	ASTM D256	70 J/cm²
IZOD Impact Strength without notch	ASTM D256	450 J/cm²

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TPM3D PEEK IND

Features

- High temperature resistance
- High strength
- Fire resistance
- Biocompatible
- Stable chemical properties

Application

- Medicals
- Engines
- Machine parts

Specification

Mechanical properties	Test method	Metric
Part Color	Visual	Yellowish Black
Density	DIN 53466	1.13 g/cm³
Elongation at break	ASTM D628	6.3 %
Flexural Strength	ASTM D790	95 Mpa
Flexural Modulus	ASTM D790	4,000 MPa
Heat Deflection Temperature 0.45MPa	ASTM D648	294 °C
Heat Deflection Temperature 1.8MPa	ASTM D648	170 °C
Tensile Strength	ASTM D628	80 MPa
Tensile Modulus	ASTM D628	5,000 MPa
IZOD Impact Strength with notch	ASTM D256	0.15 kJ/m²
IZOD Impact Strength without notch	ASTM D256	1 kJ/m²

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Features

- High temperature resistance
- High stiffness and flame retardancy
- Biocompatible
- Stable chemical properties

Application

- Drones
- Parts with high rigidity

Specification

Mechanical properties	Test method	Metric
Part Color	Visual	Yellowish Black
Elongation at break	ISO 527	2.3%
Tensile Strength(MPa)	ISO 527	81 Mpa
Tensile Modulus(MPa)	ISO 527	4,000 Mpa
Flexural Strength(MPa)	ISO 178	160 Mpa
Flexural Modulus(MPa)	ISO 178	7,200 MPa
Single Notch Impact Resistance(KJ/m2)	ISO 180	4.5 KJ/m2
Double Notch Impact(KJ/m2)	ISO 180	3.969 KJ/m2
Thermal Deformation Temperature (°C)		>200°C

Note: 1. The above parameters based on specified test method and heating energy might not be achieved with different conditions.
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TPM3D PP Pro

Features

- Good comprehensive perfromance
- Low density and light weight
- Low water absorption

Application

- Medical
- Automobile
- Consumer electronics
- Fluid container

Specification

Mechanical properties	Test method	Metric
Part Color	Visual	Natural White
Density	ISO1183-1:2019:A	0.80 g/cm³
Elongation at break	ISO 527-1:2012	18 %
Flexural Strength	ISO 178:2019	30.2 MPa
Flexural Modulus	ISO 178:2019	1,100 MPa
Heat Deflection Temperature 0.45MPa	ISO 75-1:2013	98 ℃
Heat Deflection Temperature 1.8MPa	ISO 75-1:2020	64 ℃
Tensile Strength	ISO 527-1:2019	21.1 MPa
Tensile Modulus	ISO 527-1:2019 & ISO 527-1:2012	1,180 MPa
IZOD Impact Strength with notch	ISO 180:2019	4.5 kJ/M^2
IZOD Impact Strength without notch	ISO 180:2019	21 kJ/M^2

Note: 1. The above parameters based on specified test method and heating energy might not be achieved with different conditions.
2. Powder for printing specimens contained 10% virgin powder and 90% recycled powder.

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Features

- High temperature resistance
- High stiffness and flame retardancy
- Biocompatible
- Stable chemical properties

Application

- Drones
- Parts with high rigidity

Specification

Mechanical properties	Test method	Metric
Part Color	Visual	Yellowish Black
Elongation at break	ISO 527	2.70%
Tensile Strength(MPa)	ISO 527	55 Mpa
Tensile Modulus(MPa)	ISO 527	3,900 Mpa
Flexural Strength(MPa)	ISO 178	70 Mpa
Flexural Modulus(MPa)	ISO 178	3,100 MPa
Single Notch Impact Resistance(KJ/m2)	ISO 180	1.4 KJ/m2
Double Notch Impact(KJ/m2)	ISO 180	1.688 KJ/m2
Thermal Deformation Temperature (°C)		>200°C

Note: 1. The above parameters based on specified test method and heating energy might not be achieved with different conditions.
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TPU **Precimid1130** 88A

Features

- Softness、Elastic material
- Impact resistance
- Good vibration damping performance
- High reusability
- Heat resistance
- Mildew resistance and water resistance

Application

- Seal washers
- Automobile vibration damping parts and buffer isolation
- Soft protectors
- Sports insoles
- Scenes requiring high surface ductility.

Specification

Mechanical properties	Test method	Typical Values[1] X-Direction	Typical Values[1] Z-Direction
Hardness Shore A	DIN ISO 7619-1	88-90	88-90
Tensile Strength / MPa	DIN53504,S2	8	7
Tensile Elongation at break /%	DIN53504.S2	270	130
Tensile Modulus / MPa	IS0527-2,1A	75	75
Flexural Modulus /MPa	DIN EN ISO 178	70	70
Tear resistance (propagation, Trouser) / kN/m	DINISO34-1,A	26	26
Tear resistance (initiation, Graves)/ kN/m	DINISO34-1,B	43	37
Compression Set B (23"C,72h)/ %	DIN ISO 815-1	24	24
Rebound resilience/%	DIN 53512	63	63
Abrasion resistance /mm³	DINISO4649	86	95
Charpy Impact Strength (notched, 23°C) / kJ/m²	DIN EN ISO 179-1	No break	No break
Charpy Impact Strength (notched, -10°C)\ / kJ/m²	DIN EN ISO 179-1	60	58
Fatigue behavior (Rossflex,100k cycles, 23°C)	ASTMD1052	No break	
Fatigue behavior (Rossflex, 100k cycles, -10°C)	ASTMD1052	No break	

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SLS Production System
Polymer Powder
SLS Part Manufacturing