MATERIAL DATA SHEET



Material Name: PA6 Color:Black or off-white Material Group: Nylon Technology: Selective Laser Sintering

Description:

FEATURES a. High strength and stiffness b. Good chemical resistance c. Excellent long-term invariable performance 4. High selectivity and detailed analysis d. Possibilities of various finishing (e.g. metallization, glazing, vibration mill, bathtub coloring, adhesion, powder spraying, flocking)

General information	Test Standard	Value
Bulk Density		0.52 g/cm ³
Part Density		1.14 g/cm ³
Color		Black
Thermal Properties		
Melting Point(10°C /min)	ISO 11357.1:1997	225 °C
Heat Deflection Temp(HDT) @ 1.8 MPa	ISO 75-2:2003	93 °C
Heat Deflection Temp(HDT) @ 0.45 MPa	ISO 75-2:2003	191 °C
Mechanical Properties		
Tensile Strength	ISO 527.2:1993	74 MPa
Tensile Modulus	ISO 527.2:1993	3457 MPa
Elongation at Break	ISO 527.2:1993	4.00%
Flexural Strength	ISO 178:2001	99 MPa
Flexural Modulus	ISO 178:2001	2842 MPa
Izod Impact Strength (notched)	ISO 180:2000	10.5 KJ/m ²
Izod Impact Strength (unnotched)	ISO 180:2000	67.2 KJ/m ²

Disclaimer

The typical values presented in this document are intended for reference and comparison purposes only. They should not be used for design specifications or quality control purposes. Actual values may vary significantly with printing conditions. End-use performance of printed parts properties can be impact by, but not limited to, part design, environmental conditions, printing conditions, etc. Product specifications are subject to change without notice. Each user is responsible for determining the safety, lawfulness, technical suitability, and disposal/recycling practices of PA6 materials for the intended application. We make no warranty of any kind, unless announced separately, to the fitness for any particular use or application. We shall not be made liable for any damage, injury or loss induced from the use of materials in any particular application.

MATERIAL DATA SHEET



Material Name: TPU Shore 90A, Shore 75A Color: White and can be dyed into any customized color Technology: Selective Laser Sintering

Key Benifits

Durable and can include interlocking features.

Ideal applications

Automotive, Medical, Robotics, Hoses, Seals, Footwear, Helmet interiors, Toy tires

General information	Test Standard	Value
Bulk Density		0.64 g/cm ³
Part Density		1.12 g/cm ³
Color		Light yellow
Thermal Properties		
Melting Point(10°C /min)	ISO 11357.1:1997	169°C
Heat Deflection Temp(HDT) @ 1.8 MPa	ISO 75-2:2003	n/a
Heat Deflection Temp(HDT) @ 0.45 MPa	ISO 75-2:2003	n/a
Mechanical Properties		
Tensile Strength	ISO 527.2:1993	18 MPa
Tensile Modulus	ISO 527.2:1993	61 MPa
Elongation at Break	ISO 527.2:1993	276%
Flexural Strength	ISO 178:2001	6. 2 MPa
Flexural Modulus	ISO 178:2001	86 MPa
Izod Impact Strength (notched)	ISO 180:2000	No break
Izod Impact Strength (unnotched)	ISO 180:2000	No break

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