

Cathay PA512 Renewable Engineering Polyamide

Category : Polymer , Thermoplastic , Nylon

Material Notes:

Cathay engineering polyamides contain 26-100% renewably sourced material. Advantages: Operates at similar conditions to PA66;
Suitable for injection, compounding and extrusion; Stable mechanical properties
Information provided by Cathay

Order this product through the following link:

http://www.lookpolymers.com/polymer_Cathay-PA512-Renewable-Engineering-Polyamide.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.06 g/cc	1.06 g/cc	ISO 1183
Water Absorption	0.30 %	0.30 %	Equilibrium, 50%RH; ISO 62

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	55.0 MPa	7980 psi	ISO 527-2/1A/50
Elongation at Yield	>= 100 %	>= 100 %	ISO 527-2/1A/50
Tensile Modulus	1.75 GPa	254 ksi	ISO 527-2/1
Flexural Strength	58.0 MPa	8410 psi	ISO 178
Flexural Modulus	1.50 GPa	218 ksi	ISO 178
Izod Impact, Notched (ISO)	8.30 kJ/m ²	3.95 ft-lb/in ²	ISO 180/1A
Charpy Impact, Notched	0.750 J/cm ²	3.57 ft-lb/in ²	ISO 179/1eA

Thermal Properties	Metric	English	Comments
Melting Point	210 °C	410 °F	ISO 3146
Deflection Temperature at 1.8 MPa (264 psi)	52.0 °C	126 °F	ISO 75-2/A

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+13 ohm-cm	1.00e+13 ohm-cm	IEC 60093

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