

Cathay PA56 Renewable Engineering Polyamide, DAM

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-PA56-Renewable-Engineering-Polyamide-DAM.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.14 g/cc	1.14 g/cc	ISO 1183
Water Absorption	0.20 %	0.20 %	ISO 62
	4.6 %	4.6 %	Equilibrium, 50%RH; ISO 62
Water Absorption at Saturation	16 %	16 %	ISO 62

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	81.0 MPa	11700 psi	ISO 527-2
Elongation at Yield	4.9 %	4.9 %	ISO 527-2
Tensile Modulus	3.10 GPa	450 ksi	ISO 527-2
Flexural Strength	108 MPa	15700 psi	ISO 178
Flexural Modulus	2.65 GPa	384 ksi	ISO 178
Izod Impact, Notched (ISO)	8.50 kJ/m ²	4.04 ft-lb/in ²	ISO 180/1A
Izod Impact, Unnotched (ISO)	NB	NB	ISO 180/1U
Charpy Impact Unnotched	NB	NB	ISO 179/1eA
Charpy Impact, Notched	0.800 J/cm ²	3.81 ft-lb/in ²	ISO 179/1eA

Thermal Properties	Metric	English	Comments
Melting Point	254 °C	489 °F	ISO 3146
Deflection Temperature at 0.46 MPa (66 psi)	205 °C	401 °F	ISO 75-2/B
Deflection Temperature at 1.8 MPa (264 psi)	67.5 °C	154 °F	ISO 75-2/A
Vicat Softening Point	217 °C	423 °F	ISO 306
	V-2	V-2	

Flammability, UL 94 Thermal Properties		Metric @ Thickness 0.710 mm	English @ Thickness 0.0280 in	Comments
Oxygen Index		34.7 %	34.7 %	ISO 4589-2
Glow Wire Test		960 °C @Thickness 1.50 mm	1760 °F @Thickness 0.0591 in	IEC 60695-2-12

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