

## Cathay PA510 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-PA510-Renewable-Engineering-Polyamide.php](http://www.lookpolymers.com/polymer_Cathay-PA510-Renewable-Engineering-Polyamide.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.06 g/cc	1.06 g/cc	ISO 1183
Water Absorption	0.45 %	0.45 %	Equilibrium, 50%RH; ISO 62

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	60.0 MPa	8700 psi	ISO 527-2/1A/50
Elongation at Yield	>= 100 %	>= 100 %	ISO 527-2/1A/50
Tensile Modulus	2.00 GPa	290 ksi	ISO 527-2/1
Flexural Strength	65.0 MPa	9430 psi	ISO 178
Flexural Modulus	1.60 GPa	232 ksi	ISO 178
Izod Impact, Notched (ISO)	7.30 kJ/m <sup>2</sup>	3.47 ft-lb/in <sup>2</sup>	ISO 180/1A
Charpy Impact, Notched	0.700 J/cm <sup>2</sup>	3.33 ft-lb/in <sup>2</sup>	ISO 179/1eA

Thermal Properties	Metric	English	Comments
Melting Point	218 °C	424 °F	ISO 3146
Deflection Temperature at 1.8 MPa (264 psi)	60.0 °C	140 °F	ISO 75-2/A

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

## Contact Songhan Plastic Technology Co.,Ltd.

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