

## Polyram PlusTek PB841 Nylon 6 for Injection Molding, Impact Modified

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , Impact Grade

**Material Notes:**

Impact modified Nylon 6 for injection molding applications. Information provided by Polyram.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Polyram-PlusTek-PB841-Nylon-6-for-Injection-Molding-Impact-Modified.php](http://www.lookpolymers.com/polymer_Polyram-PlusTek-PB841-Nylon-6-for-Injection-Molding-Impact-Modified.php)

Physical Properties	Metric	English	Comments
Density	1.10 g/cc	0.0397 lb/in <sup>3</sup>	ISO 1183
Moisture Absorption at Equilibrium	2.5 %	2.5 %	50% RH; ISO 62
Water Absorption at Saturation	8.0 %	8.0 %	ISO 62
Linear Mold Shrinkage	0.012 - 0.016 cm/cm	0.012 - 0.016 in/in	ISO 2577

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	114	114	
Tensile Strength, Yield	60.0 MPa	8700 psi	ISO 527
Elongation at Break	50 %	50 %	ISO 527
Flexural Strength	85.0 MPa	12300 psi	ISO 178
Flexural Modulus	2.20 GPa	319 ksi	ISO 178
Izod Impact, Notched (ISO)	40.0 kJ/m <sup>2</sup>	19.0 ft-lb/in <sup>2</sup>	ISO 180
Charpy Impact, Notched	4.30 J/cm <sup>2</sup>	20.5 ft-lb/in <sup>2</sup>	ISO 179

Thermal Properties	Metric	English	Comments
Melting Point	218 °C	424 °F	ISO 11357
Maximum Service Temperature, Air	80.0 °C	176 °F	Continuous use
	180 °C	356 °F	Short peaks operation
Deflection Temperature at 0.46 MPa (66 psi)	170 °C	338 °F	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	65.0 °C	149 °F	ISO 75
Flammability, UL94	HB	HB	
	@Thickness 3.00 mm	@Thickness 0.118 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	IEC 60093
Surface Resistance	1.00e+13 ohm	1.00e+13 ohm	IEC 60093
Dielectric Constant	3.5 @Frequency 1.00e+6 Hz	3.5 @Frequency 1.00e+6 Hz	IEC 60250
Dielectric Strength	100 kV/mm	2540 kV/in	IEC 60250

## Contact Songhan Plastic Technology Co.,Ltd.

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