

## Polyram PlusTek PB825G5 Nylon 6, 25% Glass Fiber

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , 30% Glass Fiber Filled

### Material Notes:

25% glass fiber reinforced, impact modified polyamide 6 for injection molding applications Information provided by Polyram Ram On Ind.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Polyram-PlusTek-PB825G5-Nylon-6-25-Glass-Fiber.php](http://www.lookpolymers.com/polymer_Polyram-PlusTek-PB825G5-Nylon-6-25-Glass-Fiber.php)

Physical Properties	Metric	English	Comments
Density	1.28 g/cc	0.0462 lb/in <sup>3</sup>	DIN 53479
Water Absorption	6.2 %	6.2 %	DIN 53495
Moisture Absorption at Equilibrium	2.0 %	2.0 %	50%RH; DIN 53714
Linear Mold Shrinkage	0.0030 - 0.0040 cm/cm	0.0030 - 0.0040 in/in	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	119	119	ASTM-D785
Tensile Strength, Yield	110 MPa	16000 psi	ASTM-D638
Elongation at Break	3.0 %	3.0 %	ASTM-D638
Flexural Strength	115 MPa	16700 psi	ASTM D790
Flexural Modulus	5.50 GPa	798 ksi	ASTM-D790
Izod Impact, Notched	1.25 J/cm @Temperature 23.0 °C	2.34 ft-lb/in @Temperature 73.4 °F	ASTM-D256

Thermal Properties	Metric	English	Comments
Melting Point	218 °C	424 °F	
Maximum Service Temperature, Air	80.0 °C	176 °F	Continuous Use
	200 °C	392 °F	Short peaks operation
Deflection Temperature at 0.46 MPa (66 psi)	210 °C	410 °F	DIN 53461
Deflection Temperature at 1.8 MPa (264 psi)	195 °C	383 °F	DIN 53461
Flammability, UL94	HB @Thickness 3.00 mm	HB @Thickness 0.118 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+12 ohm-cm	1.00e+12 ohm-cm	DIN 53482
Surface Resistance	1.00e+10 ohm	1.00e+10 ohm	DIN 53482
Dielectric Constant	6.6	6.6	VDE 0303/4
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Strength	70.0 kV/mm	1780 kV/in	VDE 0303/4

## Contact Songhan Plastic Technology Co.,Ltd.

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