

## Polyplastic Armamid® PA 6-1FR Nylon 6, Flame Retardant

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, Unreinforced, Flame Retardant

### Material Notes:

Halogen and phosphor free information provided by PolyPlastic Group.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Polyplastic-Armamid-PA-6-1FR-Nylon-6-Flame-Retardant.php](http://www.lookpolymers.com/polymer_Polyplastic-Armamid-PA-6-1FR-Nylon-6-Flame-Retardant.php)

Physical Properties	Metric	English	Comments
Density	1.18 g/cc	0.0426 lb/in <sup>3</sup>	ISO 1183
Linear Mold Shrinkage	<= 0.0020 cm/cm	<= 0.0020 in/in	
Linear Mold Shrinkage, Flow	0.0090 - 0.012 cm/cm	0.0090 - 0.012 in/in	ISO 294-4
Linear Mold Shrinkage, Transverse	0.0090 - 0.012 cm/cm	0.0090 - 0.012 in/in	ISO 294-4

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	80.0 MPa	11600 psi	ISO 37
Elongation at Break	10 %	10 %	ISO 37
Flexural Strength	105 MPa	15200 psi	ISO 178
Flexural Modulus	3.00 GPa	435 ksi	ISO 178
Charpy Impact Unnotched	NB @Temperature 23.0 °C	NB @Temperature 73.4 °F	ISO 179/1eU
Charpy Impact, Notched	0.800 J/cm <sup>2</sup> @Temperature 23.0 °C	3.81 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	ISO 179/1eA

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	185 °C	365 °F	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	75.0 °C	167 °F	ISO 75
Flammability, UL94	V-2 @Thickness 1.60 mm	V-2 @Thickness 0.0630 in	
Glow Wire Test	960 °C @Thickness 1.60 mm	1760 °F @Thickness 0.0630 in	IEC 60695-2-1

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	IEC 60093
Dielectric Strength	25.0 kV/mm	635 kV/in	IEC 60243-1
Comparative Tracking Index	600 V	600 V	IEC 60112

Processing Properties	Metric	English	Comments
Melt Temperature	235 - 245 °C	455 - 473 °F	
Mold Temperature	80.0 °C	176 °F	
Drying Temperature	85.0 °C @Time 7200 - 14400 sec	185 °F @Time 2.00 - 4.00 hour	

## Contact Songhan Plastic Technology Co.,Ltd.

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