

DuPont Performance Polymers Zytel® FN727 BK230A Nylon 6

Category : Polymer , Thermoplastic , Nylon , Nylon 6

Material Notes:

Zytel® FN727 BK230A is a black, impact modified, plasticizer free, very flexible polyamide 6 alloy resin having good low temperature toughness, good heat aging and good chemical resistance. Uses include cable jacketing, hose and tube applications. Information provided by DuPont Performance Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Zytel-FN727-BK230A-Nylon-6.php

Physical Properties	Metric	English	Comments
Density	1.02 g/cc	0.0368 lb/in ³	DAM; ISO 1183
Linear Mold Shrinkage, Flow	0.0080 cm/cm @Thickness 2.00 mm	0.0080 in/in @Thickness 0.0787 in	DAM; ISO 294-4
Linear Mold Shrinkage, Transverse	0.011 cm/cm @Thickness 2.00 mm	0.011 in/in @Thickness 0.0787 in	DAM; ISO 294-4

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	28.0 MPa @Temperature 23.0 °C	4060 psi @Temperature 73.4 °F	DAM; ISO 527
Elongation at Break	>= 50 % @Temperature 23.0 °C	>= 50 % @Temperature 73.4 °F	DAM; nominal; ISO 527
	130 % @Temperature 23.0 °C	130 % @Temperature 73.4 °F	DAM; nominal; ISO 527
	160 % @Temperature 23.0 °C	160 % @Temperature 73.4 °F	DAM; ISO 527
Tensile Modulus	0.900 GPa @Temperature 23.0 °C	131 ksi @Temperature 73.4 °F	DAM; ISO 527
Flexural Modulus	0.850 GPa @Temperature 23.0 °C	123 ksi @Temperature 73.4 °F	DAM; ISO 178
Izod Impact, Notched (ISO)	NB @Temperature 23.0 °C	NB @Temperature 73.4 °F	DAM; ISO 180/1A
Charpy Impact, Notched	11.0 J/cm ² @Temperature 23.0 °C	52.3 ft-lb/in ² @Temperature 73.4 °F	DAM; ISO 179/1eA

Thermal Properties	Metric	English	Comments
Melting Point	221 °C	430 °F	10°C/min; DAM; ISO 11357-1/-3
Deflection Temperature at 0.46 MPa (66 psi)	58.0 °C	136 °F	DAM; ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	48.0 °C	118 °F	DAM; ISO 75-1/-2

Processing Properties	Metric	English	Comments
Melt Temperature	230 - 240 °C	446 - 464 °F	DAM; Extrusion
	235 °C	455 °F	DAM; Optimum; Extrusion
	260 °C	500 °F	DAM; Optimum; Injection Molding
Mold Temperature	250 - 280 °C	482 - 536 °F	DAM; Injection Molding
	60.0 °C	140 °F	DAM; optimum; Injection Molding
	40.0 - 80.0 °C	104 - 176 °F	DAM; Injection Molding
Drying Temperature	80.0 °C	176 °F	DAM; Extrusion
	80.0 °C	176 °F	DAM; Injection Molding
Dry Time	2.00 - 4.00 hour	2.00 - 4.00 hour	DAM; Injection Molding
	4.00 - 6.00 hour	4.00 - 6.00 hour	DAM; Extrusion
Moisture Content	<= 0.050 %	<= 0.050 %	DAM; Extrusion
	<= 0.050 %	<= 0.050 %	DAM; Injection Molding

Descriptive Properties	Value	Comments
Appearance	Black Color	DAM
Features	Chemical Resistance, Good	DAM
	Chemical Resistance, Good	DAM
	Flexibility, Good	DAM
	Flexibility, Good	DAM
	Heat Aging Resistance, Good	DAM
	Heat Aging Resistance, Good	DAM
	Impact Modified	DAM

Descriptive Properties	Impact Modified Value	DAM Comments
Forms	Pellets	DAM
Generic	Nylon 6	DAM
Material Status	Current	DAM
Part Marking Code	>PA6-F<	ISO 11469; DAM
Processing Method	Extrusion	DAM
Product Category	Extrusion Resins	DAM
	Toughened Resins	DAM
	Unreinforced Resins	DAM
Region Available - Global	Yes	DAM
Resin Identification	PA6-F	ISO 1043; DAM
RoHS Compliance	Contact Manufacturer	DAM
Uses	Cable Jacketing	DAM
	Cable Jacketing	DAM
	Hose	DAM
	Hose	DAM
	Tubing	DAM
	Tubing	DAM

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China