

DuPont Performance Polymers Zytel® FE4200 BK136 Nylon 66 (Unverified Data**)

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

Zytel® FE4200 BK136 is a low die deposit polyamide 66 extrusion resin. Information provided by DuPont Performance Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Zytel-FE4200-BK136-Nylon-66-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.07 g/cc	1.07 g/cc	DAM; ASTM D792
Water Absorption	0.98 %	0.98 %	Immersion 24h; DAM; ASTM D570
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Linear Mold Shrinkage	0.015 cm/cm	0.015 in/in	Transverse; DAM
	@Thickness 3.20 mm	@Thickness 0.126 in	
	0.023 cm/cm	0.023 in/in	Flow; DAM
	@Thickness 3.20 mm	@Thickness 0.126 in	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	70	70	50%RH; ASTM D785
	106	106	DAM; ASTM D785
Tensile Strength	43.4 MPa	6290 psi	50%RH; ASTM D638
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	52.4 MPa	7600 psi	DAM; ASTM D638
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Elongation at Break	90 %	90 %	DAM; ASTM D638
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	200 %	200 %	50%RH; ASTM D638
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Flexural Modulus	0.331 GPa	48.0 ksi	DAM; ASTM D790
	@Temperature 100 °C	@Temperature 212 °F	
	0.897 GPa	130 ksi	50%RH; ASTM D790
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Mechanical Properties	1.862 GPa Metric	270.1 ksi English	Comments D790
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Izod Impact, Notched	10.62 J/cm @Temperature 23.0 °C	19.90 ft-lb/in @Temperature 73.4 °F	DAM; ASTM D256
Izod Impact, Unnotched	10.6 J/cm @Temperature 23.0 °C	19.9 ft-lb/in @Temperature 73.4 °F	DAM; ASTM D4812

Thermal Properties	Metric	English	Comments
Melting Point	260 °C	500 °F	10°C/min; DAM; ISO 11357-1/-3
	260 °C	500 °F	DAM; ASTM D3418
Deflection Temperature at 0.46 MPa (66 psi)	98.0 °C	208 °F	DAM; ISO 75-1/-2
	98.0 °C	208 °F	DAM; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	55.0 °C	131 °F	DAM; ISO 75-1/-2
	55.0 °C	131 °F	DAM; ASTM D648

Processing Properties	Metric	English	Comments
Melt Temperature	290 °C	554 °F	DAM; Optimum
	280 - 300 °C	536 - 572 °F	DAM
Mold Temperature	70.0 °C	158 °F	DAM; optimum
	50.0 - 90.0 °C	122 - 194 °F	DAM
Drying Temperature	80.0 °C	176 °F	DAM
Dry Time	2.00 - 4.00 hour	2.00 - 4.00 hour	DAM
Moisture Content	<= 0.20 %	<= 0.20 %	DAM

Descriptive Properties	Value	Comments
Drying Recommended	Yes, if moisture content of resin exceeds recommended level	DAM
Forms	Pellets	DAM
Material Status	Preliminary Data	DAM
Processing Method	Extrusion	DAM
Product Category	Extrusion Resins	DAM

Descriptive Properties	Value	Comments
	Unreinforced Resins	DAM
RoHS Compliance	Contact Manufacturer	DAM

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