

DuPont Performance Polymers Zytel® 7304 NC010 Nylon 6 (Unverified Data**)

Category : Polymer , Thermoplastic , Nylon , Nylon 6

Material Notes:

Zytel® 7304 NC010 is a medium viscosity, unlubricated polyamide 6 resin for extrusion applications. Information provided by DuPont Performance Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Zytel-7304-NC010-Nylon-6-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.13 g/cc	1.13 g/cc	DAM; ASTM D792
Water Absorption	3.0 % @Temperature 23.0 °C	3.0 % @Temperature 73.4 °F	Equilibrium 50%RH; DAM; ASTM D570
Linear Mold Shrinkage	0.012 cm/cm @Thickness 3.20 mm	0.012 in/in @Thickness 0.126 in	Flow; DAM

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	50.0 MPa @Temperature 23.0 °C	7250 psi @Temperature 73.4 °F	50%RH; ASTM D638
	80.0 MPa @Temperature 23.0 °C	11600 psi @Temperature 73.4 °F	DAM; ASTM D638
Tensile Modulus	1.50 GPa @Temperature 23.0 °C	218 ksi @Temperature 73.4 °F	50%RH; ASTM D638
	3.00 GPa @Temperature 23.0 °C	435 ksi @Temperature 73.4 °F	DAM; ASTM D638
Izod Impact, Notched	0.480 J/cm @Temperature -40.0 °C	0.899 ft-lb/in @Temperature -40.0 °F	DAM; ASTM D256
	1.33 J/cm @Temperature 23.0 °C	2.49 ft-lb/in @Temperature 73.4 °F	DAM; ASTM D256
	6.40 J/cm @Temperature 23.0 °C	12.0 ft-lb/in @Temperature 73.4 °F	50%RH; ASTM D256

Thermal Properties	Metric	English	Comments
Melting Point	220 °C	428 °F	DAM; ASTM D3418

Thermal Properties	220 °C Metric	428 °F English	30°C/min; DAM; ISO 11357-1/-3 Comments
Deflection Temperature at 0.46 MPa (66 psi)	160 °C	320 °F	DAM; ISO 75-1/-2
	160 °C	320 °F	DAM; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	65.0 °C	149 °F	DAM; ASTM D648
	65.0 °C	149 °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
	270 °C	518 °F	DAM; Optimum; Injection Molding
	260 - 280 °C	500 - 536 °F	DAM; Injection Molding
Mold Temperature	50.0 - 90.0 °C	122 - 194 °F	DAM; Injection Molding
	70.0 °C	158 °F	DAM; optimum; Injection Molding
Drying Temperature	80.0 °C	176 °F	DAM; Injection Molding
	80.0 °C	176 °F	DAM; Extrusion
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; Injection Molding
	<= 0.050 %	<= 0.050 %	DAM; Extrusion

Descriptive Properties	Value	Comments
Appearance	Natural Color	DAM
Drying Recommended	Yes, if moisture content of resin exceeds recommended level	DAM
Features	Chemical Resistance, Good	DAM
	Fuel Resistant	DAM
	Grease Resistant	DAM
	Oil Resistant	DAM
Forms	Pellets	DAM

Generic Descriptive Properties	Nylon 6 Value	DAM Comments
Material Status	Current	DAM
Part Marking Code	>PA6<	ISO 11469; DAM
Processing Method	Extrusion	DAM
	Injection Molding	DAM
Product Category	Extrusion Resins	DAM
	Unreinforced Resins	DAM
Resin Identification	PA6	ISO 1043; DAM
RoHS Compliance	Contact Manufacturer	DAM
Uses	Appliance Components	DAM
	Automotive Applications	DAM
	Electrical/Electronic Applications	DAM
	Industrial Applications	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