

DuPont Performance Polymers Sorona® FG3015G NC010 Polytrimethylene Terephthalate (PTT) (Unverified Data**

Category : Polymer , Thermoplastic , Polyester, TP , Polytrimethylene Terephthalate (PTT)

Material Notes:

15% Glass Reinforced Renewably Sourced Polytrimethylene Terephthalate Developed for Food Contact Applications Sorona FG3015G NC010 is a 15% glass fiber reinforced polytrimethylene terephthalate resin containing 31% renewably sourced ingredients by weight. Information provided by DuPont Performance Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Sorona-FG3015G-NC010-Polytrimethylene-Terephthalate-PTT-Unverified-Data.php

Physical Properties	Metric	English	Comments
Density	1.25 g/cc	0.0452 lb/in ³	
	1.44 g/cc	0.0520 lb/in ³	ISO 1183
Viscosity	68000 cP	68000 cP	
	@Shear Rate 5000 1/s, Temperature 270 °C	@Shear Rate 5000 1/s, Temperature 518 °F	ISO 11403-1 -2
	82200 cP	82200 cP	
	@Shear Rate 5000 1/s, Temperature 260 °C	@Shear Rate 5000 1/s, Temperature 500 °F	ISO 11403-1 -2
	95100 cP	95100 cP	
	@Shear Rate 5000 1/s, Temperature 250 °C	@Shear Rate 5000 1/s, Temperature 482 °F	ISO 11403-1 -2
	178500 cP	178500 cP	
	@Shear Rate 500 1/s, Temperature 270 °C	@Shear Rate 500 1/s, Temperature 518 °F	ISO 11403-1 -2
	231600 cP	231600 cP	
	@Shear Rate 500 1/s, Temperature 260 °C	@Shear Rate 500 1/s, Temperature 500 °F	ISO 11403-1 -2
	294300 cP	294300 cP	
	@Shear Rate 500 1/s, Temperature 250 °C	@Shear Rate 500 1/s, Temperature 482 °F	ISO 11403-1 -2
Linear Mold Shrinkage, Flow	0.0030 cm/cm	0.0030 in/in	ISO 294-4 2577
Linear Mold Shrinkage, Transverse	0.0070 cm/cm	0.0070 in/in	ISO 294-4 2577
Melt Flow	13 g/10 min	13 g/10 min	
	@Load 2.16 kg, Temperature 250 °C	@Load 4.76 lb, Temperature 482 °F	cm ³ /10min; ISO 1133

Physical Properties	Metric	English	Comments
Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	120 MPa	17400 psi	ISO 527-1/-2
Elongation at Break	2.5 %	2.5 %	ISO 527-1/-2
Tensile Modulus	6.50 GPa	943 ksi	ISO 527-1/-2
Flexural Strength	160 MPa	23200 psi	ISO 178
Flexural Modulus	5.80 GPa	841 ksi	ISO 178
Izod Impact, Notched (ISO)	5.50 kJ/m²	2.62 ft-lb/in²	ISO 180/1A
Charpy Impact Unnotched	2.50 J/cm²	11.9 ft-lb/in²	ISO 179/1eU
Charpy Impact, Notched	0.550 J/cm²	2.62 ft-lb/in²	ISO 179/1eA

Thermal Properties	Metric	English	Comments
Melting Point	227 °C	441 °F	10°C/min; ISO 11357-1/-3
Deflection Temperature at 0.46 MPa (66 psi)	223 °C	433 °F	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	200 °C	392 °F	ISO 75-1/-2
Flammability, UL94	HB @Thickness 1.50 mm	HB @Thickness 0.0591 in	IEC 60695-11-10

Descriptive Properties	Value	Comments
Additives	Release agent	
Delivery Form	Pellets	
Part Marking Code	>PTT-GF15<	ISO 11469
Processing	Injection Moulding	
Regional Availability	Asia Pacific	
	Europe	
	Global	
	Near East/Africa	
	North America	
	South and Central America	

Descriptive Properties	Value	Comments
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