

DuPont Performance Polymers Sorona® 3015GV NC010 Polytrimethylene Terephthalate (PTT)

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

Material Notes:

15% Glass Reinforced Renewably Sourced Polytrimethylene Terephthalate Sorona 3015GV NC010 is a 15% glass reinforced PTT resin containing 31% renewably sourced ingredients by weight (37% based on polymer only) with low warpage and superior strength

Information provided by DuPont Performance Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Sorona-3015GV-NC010-Polytrimethylene-Terephthalate-PTT.php

Physical Properties	Metric	English	Comments
Density	1.40 g/cc	0.0506 lb/in ³	ISO 1183
Water Absorption at Saturation	0.080 %	0.080 %	Immersion 24h; ASTM D570

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	125 MPa	18100 psi	ISO 527-1/-2
Elongation at Break	3.0 %	3.0 %	ISO 527-1/-2
Tensile Modulus	6.50 GPa	943 ksi	ISO 527-1/-2
Flexural Strength	190 MPa	27600 psi	ISO 178
Flexural Modulus	5.80 GPa	841 ksi	ISO 178
Charpy Impact Unnotched	2.50 J/cm ²	11.9 ft-lb/in ²	ISO 179/1eU
	3.00 J/cm ² @Temperature -30.0 °C	14.3 ft-lb/in ² @Temperature -22.0 °F	ISO 179/1eU
Charpy Impact, Notched	0.550 J/cm ²	2.62 ft-lb/in ²	ISO 179/1eA
	0.600 J/cm ² @Temperature -30.0 °C	2.86 ft-lb/in ² @Temperature -22.0 °F	ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	15.0 µm/m-°C	8.33 µin/in-°F	ISO 11359-1/-2
CTE, linear, Transverse to Flow	89.0 µm/m-°C	49.4 µin/in-°F	ISO 11359-1/-2
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

Thermal Properties (at 1.8 MPa (264 psi))	Metric	English	Comments
Flammability, UL94	HB	HB	IEC 60695-11-10
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	HB	HB	IEC 60695-11-10
	@Thickness 0.800 mm	@Thickness 0.0315 in	
Oxygen Index	19 %	19 %	ISO 4589-1/-2

Electrical Properties	Metric	English	Comments
Volume Resistivity	$\geq 1.00 \times 10^{15}$ ohm-cm	$\geq 1.00 \times 10^{15}$ ohm-cm	IEC 60093
Surface Resistance	1.00×10^{14} ohm	1.00×10^{14} ohm	IEC 60093
Dielectric Constant	3.7	3.7	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	3.9	3.9	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Dielectric Strength	36.0 kV/mm	914 kV/in	IEC 60243-1
Dissipation Factor	0.0015	0.0015	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Comparative Tracking Index	250 V	250 V	IEC 60112

Descriptive Properties	Value	Comments
Part Marking Code	>PTT-GF15<	ISO 11469
Regional Availability	Asia Pacific	
	Europe	
	Global	
	Near East/Africa	
	North America	
	South and Central America	
Resin Identification	PTT-GF15	

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