

DuPont Performance Polymers Sorona® 3301V NC010 Polytrimethylene Terephthalate (PTT) (Unverified Data**)&

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

Material Notes:

Sorona® 3301V NC010 is an unreinforced polytrimethylene terephthalate resin containing 35% renewably sourced ingredients by weight developed for applications requiring high surface gloss in a broad range of conditions. Information provided by DuPont Performance Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Sorona-3301V-NC010-Polytrimethylene-Terephthalate-PTT-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Density	1.32 g/cc	0.0477 lb/in ³	ISO 1183
Linear Mold Shrinkage, Flow	0.013 cm/cm @Thickness 2.00 mm	0.013 in/in @Thickness 0.0787 in	ISO 294-4
Linear Mold Shrinkage, Transverse	0.014 cm/cm @Thickness 2.00 mm	0.014 in/in @Thickness 0.0787 in	ISO 294-4

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	60.0 MPa @Temperature 23.0 °C	8700 psi @Temperature 73.4 °F	ISO 527
Elongation at Break	15 % @Temperature 23.0 °C	15 % @Temperature 73.4 °F	nominal; ISO 527
	15 % @Temperature 23.0 °C	15 % @Temperature 73.4 °F	50mm/min; ISO 527
Elongation at Yield	5.5 % @Temperature 23.0 °C	5.5 % @Temperature 73.4 °F	ISO 527
Tensile Modulus	2.40 GPa @Temperature 23.0 °C	348 ksi @Temperature 73.4 °F	ISO 527
Flexural Modulus	2.40 GPa @Temperature 23.0 °C	348 ksi @Temperature 73.4 °F	ISO 178
Izod Impact, Notched (ISO)	4.50 kJ/m ² @Temperature 23.0 °C	2.14 ft-lb/in ² @Temperature 73.4 °F	ISO 180/1A
	0.400 J/cm ²	1.90 ft-lb/in ²	

Charpy Impact, Notched Mechanical Properties	Metric @ Temperature 23.0 °C	English @ Temperature 73.4 °F	ISO 179/1eA Comments
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Thermal Properties	Metric	English	Comments
Melting Point	228 °C	442 °F	10°C/min; ISO 11357-1/-3
Deflection Temperature at 0.46 MPa (66 psi)	125 °C	257 °F	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	60.0 °C	140 °F	ISO 75-1/-2
Flammability, UL94	HB	HB	IEC 60695-11-10
	@Thickness 3.00 mm	@Thickness 0.118 in	
	HB	HB	
	@Thickness 1.50 mm	@Thickness 0.0591 in	IEC 60695-11-10
	HB	HB	UL94
	@Thickness 0.750 mm	@Thickness 0.0295 in	
	HB	HB	
@Thickness 0.750 mm	@Thickness 0.0295 in		
HB	HB	UL94	
@Thickness 1.50 mm	@Thickness 0.0591 in	UL94	
HB	HB	UL94	
@Thickness 3.00 mm	@Thickness 0.118 in	UL94	
Glow Wire Test	675 °C	1250 °F	IEC 60695-2-12
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	675 °C	1250 °F	Ignition; IEC 60695-2-13
	@Thickness 1.50 mm	@Thickness 0.0591 in	
700 °C	1290 °F	Ignition; IEC 60695-2-13	
@Thickness 0.950 mm	@Thickness 0.0374 in		
725 °C	1340 °F	IEC 60695-2-12	
@Thickness 0.950 mm	@Thickness 0.0374 in		

Electrical Properties	Metric	English	Comments
Comparative Tracking Index	600 V	600 V	IEC 60112
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Processing Properties	Metric	English	Comments
Melt Temperature	260 °C	500 °F	Optimum
	250 - 270 °C	482 - 518 °F	
Mold Temperature	80.0 - 110 °C	176 - 230 °F	
	100 °C	212 °F	optimum
Drying Temperature	120 °C	248 °F	
Dry Time	4.00 hour	4.00 hour	
Moisture Content	<= 0.020 %	<= 0.020 %	

Descriptive Properties	Value	Comments
Appearance	Natural Color	
Forms	Pellets	
Generic	Polytrimethylene Terephthalate (PTT)	
Material Status	Current	
Part Marking Code	>PTT<	ISO 11469
Processing Method	Injection Molding	
Product Category	Renewably Sourced Resins	
	Unreinforced Resins	
Region Available - Global	Yes	
Resin Identification	PTT	ISO 1043
RoHS Compliance	Contact Manufacturer	

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