DuPont Performance Polymers Crastin® S650FR NC010 Polybutylene Terephthalate (PBT) (Unverified Data**)<

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , Polybutylene Terephthalate (PBT), Flame Retardant

Material Notes:

Unreinforced Flame Retardant Polybutylene Terephthalate Crastin S650FR is an unreinforced flame retardant polybutylene terephthalate for injection molding.Information provided by DuPont Performance Polymers

Order this product through the following link:
http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Crastin-S650FR-NC010-Polybutylene-Terephthalate-PBT-nbspUnverified-DataIt.php

Physical Properties	Metric	English	Comments
Density	1.46 g/cc	0.0527 lb/in³	ISO 1183
Water Absorption	0.39 % @Thickness 2.00 mm	0.39 % @Thickness 0.0787 in	Sim. to ISO 62
Moisture Absorption	0.150 % @Thickness 2.00 mm	0.150 % @Thickness 0.0787 in	Sim. to ISO 62
Linear Mold Shrinkage, Flow	0.018 cm/cm	0.018 in/in	ISO 294-4 2577
	0.022 cm/cm	0.022 in/in	annealed; ISO 294-4
Linear Mold Shrinkage, Transverse	0.016 cm/cm	0.016 in/in	ISO 294-4 2577
	0.0215 cm/cm	0.0215 in/in	annealed; ISO 294-4

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	65.0 MPa	9430 psi	ISO 527-1/-2
Elongation at Break	7.2 %	7.2 %	Nominal; ISO 527-1/-2
Elongation at Yield	4.6 %	4.6 %	ISO 527-1/-2
Tensile Modulus	3.00 GPa	435 ksi	ISO 527-1/-2
Flexural Strength	100 MPa	14500 psi	ISO 178
Izod Impact, Notched (ISO)	4.00 kJ/m²	1.90 ft-lb/in²	ISO 180/1A
	4.00 kJ/m² @Temperature -30.0 °C	1.90 ft-lb/in² @Temperature -22.0 °F	ISO 180/1A
Izod Impact, Unnotched (ISO)	45.0 kJ/m²	21.4 ft-lb/in²	ISO 180/1U
	42.0 kJ/m²	20.0 ft-lb/in²	ISO 180/1U

Mechanical Properties	Metric	English	Comments
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact Unnotched	7.00 J/cm²	33.3 ft-lb/in²	ISO 179/1eU
	6.70 J/cm² @Temperature -30.0 °C	31.9 ft-lb/in² @Temperature -22.0 °F	ISO 179/1eU
Charpy Impact, Notched	0.380 J/cm²	1.81 ft-lb/in²	ISO 179/1eA
	0.330 J/cm² @Temperature -30.0 °C	1.57 ft-lb/in² @Temperature -22.0 °F	ISO 179/1eA
Tensile Creep Modulus, 1 hour	2500 MPa @Time 3600 sec	363000 psi @Time 1.00 hour	ISO 899-1
Tensile Creep Modulus, 1000 hours	1800 MPa @Time 3.60e+6 sec	261000 psi @Time 1000 hour	ISO 899-1

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	120 µm/m-°C	66.7 µin/in-°F	ISO 11359-1/-2
CTE, linear, Transverse to Flow	120 µm/m-°C	66.7 µin/in-°F	ISO 11359-1/-2
Melting Point	225 °C	437 °F	10°C/min; ISO 11357-1/-3
Deflection Temperature at 0.46 MPa (66 psi)	160 °C	320 °F	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	65.0 °C	149 °F	ISO 75-1/-2
Vicat Softening Point	175 °C	347 °F	50°C/h 50N; ISO 306
Flammability, UL94	V-0 @Thickness 1.50 mm	V-0 @Thickness 0.0591 in	IEC 60695-11-10
	V-0 @Thickness 0.800 mm	V-0 @Thickness 0.0315 in	IEC 60695-11-10
Oxygen Index	30 %	30 %	ISO 4589-1/-2

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+15 ohm-cm	>= 1.00e+15 ohm-cm	IEC 60093
Surface Resistance	1.00e+15 ohm	1.00e+15 ohm	IEC 60093
Dielectric Constant	3.5 @Frequency 100 Hz	3.5 @Frequency 100 Hz	IEC 60250

Electrical Properties	Metric	English	Comments
	3.5 @Frequency 1.00e+6 Hz	3.5 @Frequency 1.00e+6 Hz	IEC 60250
Dielectric Strength	25.0 kV/mm	635 kV/in	IEC 60243-1
Dissipation Factor	0.0017 @Frequency 100 Hz	0.0017 @Frequency 100 Hz	IEC 60250
	0.018 @Frequency 1.00e+6 Hz	0.018 @Frequency 1.00e+6 Hz	IEC 60250
Comparative Tracking Index	225 V	225 V	IEC 60112

Descriptive Properties	Value	Comments
Delivery Form	Pellets	
Part Marking Code	>PBT-FR(17)<	ISO 11469
Processing	Injection Moulding	
Regional Availability	Asia Pacific	
	Europe	
	Global	
	Near East/Africa	
	North America	
	South and Central America	
Resin Identification	PBT-FR(17)	
UL recognition	UL	

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