DuPont Performance Polymers Crastin® FG6129 NC010 Polybutylene Terephthalate (PBT) (Unverified Data**)<

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

Material Notes:

Unreinforced High Viscosity Polybutylene Terephthalate Developed for Food Contact Applications and Extrusion and Injection Molding

Crastin FG6129 NC010 is an unreinforced high viscosity polybutylene terephthalate resin for extrusion and injection moldiInformation provided by DuPont Performance Polymers

Order this product through the following link:
http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Crastin-FG6129-NC010-Polybutylene-Terephthalate-PBT-nbspUnverified-DataIt.php

Physical Properties	Metric	English	Comments
Density	1.12 g/cc	0.0405 lb/in³	
	1.30 g/cc	0.0470 lb/in³	ISO 1183
Water Absorption	0.40 % @Thickness 2.00 mm	0.40 % @Thickness 0.0787 in	Sim. to ISO 62
Moisture Absorption	0.200 % @Thickness 2.00 mm	0.200 % @Thickness 0.0787 in	Sim. to ISO 62
Viscosity Test	150 cm³/g	150 cm³/g	ISO 307 1157 1628
Linear Mold Shrinkage, Flow	0.017 cm/cm	0.017 in/in	ISO 294-4 2577
Linear Mold Shrinkage, Transverse	0.015 cm/cm	0.015 in/in	ISO 294-4 2577
Melt Flow	10 g/10 min @Load 2.16 kg, Temperature 250 °C	10 g/10 min @Load 4.76 lb, Temperature 482 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	58.0 MPa	8410 psi	ISO 527-1/-2
Elongation at Break	>= 50 %	>= 50 %	Nominal; ISO 527-1/-2
Elongation at Yield	5.0 %	5.0 %	ISO 527-1/-2
Tensile Modulus	2.60 GPa	377 ksi	ISO 527-1/-2
Flexural Strength	85.0 MPa	12300 psi	ISO 178
Flexural Modulus	2.35 GPa	341 ksi	ISO 178
Izod Impact, Notched (ISO)	4.50 kJ/m²	2.14 ft-lb/in²	ISO 180/1A

Mechanical Properties	Metric	English	Comments
	6.80 kJ/m²	6.86 ft-lb/in²	ISO 180/1A
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Izod Impact, Unnotched (ISO)	NB	NB	ISO 180/1U
	130 kJ/m² @Temperature -30.0 °C	61.9 ft-lb/in² @Temperature -22.0 °F	ISO 180/1U
Charpy Impact Unnotched	NB	NB	ISO 179/1eU
	NB @Temperature -30.0 °C	NB @Temperature -22.0 °F	ISO 179/1eU
Charpy Impact, Notched	0.550 J/cm²	2.62 ft-lb/in²	ISO 179/1eA
	0.400 J/cm² @Temperature -30.0 °C	1.90 ft-lb/in² @Temperature -22.0 °F	ISO 179/1eA
Tensile Creep Modulus, 1 hour	2600 MPa @Time 3600 sec	377000 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	130 µm/m-°C	72.2 µin/in-°F	ISO 11359-1/-2
CTE, linear, Transverse to Flow	130 µm/m-°C	72.2 µin/in-°F	ISO 11359-1/-2
Specific Heat Capacity	2.09 J/g-°C	0.500 BTU/lb-°F	
Thermal Conductivity	0.250 W/m-K	1.74 BTU-in/hr-ft²-°F	of melt
Melting Point	225 °C	437 °F	10°C/min; ISO 11357-1/-3
Deflection Temperature at 0.46 MPa (66 psi)	115 °C	239 °F	ISO 75-1/-2
	180 °C	356 °F	annealed; ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	50.0 °C	122 °F	ISO 75-1/-2
	60.0 °C	140 °F	annealed; ISO 75-1/-2
Vicat Softening Point	175 °C	347 °F	50°C/h 50N; ISO 306
Flammability, UL94	HB @Thickness 1.50 mm	HB @Thickness 0.0591 in	IEC 60695-11-10

Thermal Properties	Metric	English	Comments
	HB @Thickness 0.900 mm	HB @Thickness 0.0354 in	IEC 60695-11-10
Oxygen Index	22 %	22 %	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+12 ohm	1.00e+12 ohm	IEC 60093
Dielectric Strength	26.0 kV/mm	660 kV/in	IEC 60243-1
Comparative Tracking Index	600 V	600 V	IEC 60112

Descriptive Properties	Value	Comments
Delivery Form	Pellets	
Part Marking Code	>PBT<	ISO 11469
Processing	Coatable	
	Injection Moulding	
	Other Extrusion	
	Profile Extrusion	
	Sheet Extrusion	
Regional Availability	Asia Pacific	
	Europe	
	Global	
	Near East/Africa	
	North America	
	South and Central America	
Resin Identification	PBT	
UL recognition	UL	

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