

DuPont Performance Polymers Crastin® FG6130 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 FG6130 NC010 is an unreinforced medium high viscosity polybutylene terephthalate resin for extrusion and injection molding. Information provided by DuPont Performance Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Crastin-FG6130-NC010-Polybutylene-Terephthalate-PBT-nbspUnverified-Dataalt.php

Physical Properties	Metric	English	Comments
Density	1.12 g/cc	0.0405 lb/in ³	
	1.30 g/cc	0.0470 lb/in ³	ISO 1183
Water Absorption	0.40 %	0.40 %	Sim. to ISO 62
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Moisture Absorption	0.200 %	0.200 %	Sim. to ISO 62
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Viscosity Test	130 cm ³ /g	130 cm ³ /g	ISO 307 1157 1628
Linear Mold Shrinkage, Flow	0.016 cm/cm	0.016 in/in	ISO 294-4 2577
Linear Mold Shrinkage, Transverse	0.015 cm/cm	0.015 in/in	ISO 294-4 2577
Melt Flow	15.4 g/10 min	15.4 g/10 min	ISO 1133
	@Load 2.16 kg, Temperature 250 °C	@Load 4.76 lb, Temperature 482 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	59.0 MPa	8560 psi	ISO 527-1/-2
Elongation at Break	50 %	50 %	Nominal; ISO 527-1/-2
Elongation at Yield	8.0 %	8.0 %	ISO 527-1/-2
Tensile Modulus	2.60 GPa	377 ksi	ISO 527-1/-2
Izod Impact, Notched (ISO)	4.00 kJ/m ²	1.90 ft-lb/in ²	ISO 180/1A
Charpy Impact Unnotched	NB	NB	ISO 179/1eU
	NB	NB	

Mechanical Properties	Metric @ Temperature -30.0 °C	English @ Temperature -22.0 °F	ISO 179/1eJ Comments
Charpy Impact, Notched	0.500 J/cm ²	2.38 ft-lb/in ²	ISO 179/1eA
	0.450 J/cm ² @Temperature -30.0 °C	2.14 ft-lb/in ² @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	108 µm/m-°C	60.0 µin/in-°F	ISO 11359-1/-2
CTE, linear, Transverse to Flow	144 µm/m-°C	80.0 µin/in-°F	ISO 11359-1/-2
Specific Heat Capacity	2.05 J/g-°C	0.490 BTU/lb-°F	
Thermal Conductivity	0.250 W/m-K	1.74 BTU-in/hr-ft ² -°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
	HB @Thickness 0.800 mm	HB @Thickness 0.0315 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 Electrical Properties	25.0 kV/mm Metric	660 kV/in English	IEC 60243-1 Comments
Comparative Tracking Index	600 V	600 V	IEC 60112

Descriptive Properties	Value	Comments
Delivery Form	Pellets	
Part Marking Code	>PBT<	ISO 11469
Processing	Coatable	
	Film Extrusion	
	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	

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