

DuPont Performance Polymers Crastin® HR5330HF BK503 PBT (Unverified Data**)

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , Polybutylene Terephthalate (PBT), 30% Glass Fiber Filled

Material Notes:

Crastin® HR5330HF is a 30% glass reinforced PBT with high flow (HF), moderately toughened, hydrolysis resistant (HR) resin. Excellent balance of properties between terminal pullout and impact resistance. Developed for USCAR Class 3 and 4 environments. Information provided by DuPont Performance Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Crastin-HR5330HF-BK503-PBT-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Density	1.50 g/cc	0.0542 lb/in ³	ISO 1183
Filler Content	30 %	30 %	
Linear Mold Shrinkage, Flow	0.0030 cm/cm @Thickness 2.00 mm	0.0030 in/in @Thickness 0.0787 in	ISO 294-4
Linear Mold Shrinkage, Transverse	0.010 cm/cm @Thickness 2.00 mm	0.010 in/in @Thickness 0.0787 in	ISO 294-4

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	120 MPa @Temperature 23.0 °C	17400 psi @Temperature 73.4 °F	ISO 527
Elongation at Break	3.5 % @Temperature 23.0 °C	3.5 % @Temperature 73.4 °F	ISO 527
Tensile Modulus	8.40 GPa @Temperature 23.0 °C	1220 ksi @Temperature 73.4 °F	ISO 527
Flexural Modulus	7.50 GPa @Temperature 23.0 °C	1090 ksi @Temperature 73.4 °F	ISO 178
Izod Impact, Notched (ISO)	8.00 kJ/m ² @Temperature -40.0 °C	3.81 ft-lb/in ² @Temperature -40.0 °F	ISO 180/1A
	12.0 kJ/m ² @Temperature 23.0 °C	5.71 ft-lb/in ² @Temperature 73.4 °F	ISO 180/1A
Izod Impact, Unnotched (ISO)	50.0 kJ/m ² @Temperature 23.0 °C	23.8 ft-lb/in ² @Temperature 73.4 °F	ISO 180/1U

Mechanical Properties	Metric	English	Comments
Charpy Impact Unnotched			ISO 179/1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	0.900 J/cm²	4.28 ft-lb/in²	ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	1.10 J/cm²	5.23 ft-lb/in²	ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
Melting Point	225 °C	437 °F	10°C/min; ISO 11357-1/-3
Deflection Temperature at 0.46 MPa (66 psi)	221 °C	430 °F	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	207 °C	405 °F	ISO 75-1/-2
Flammability, UL94	HB	HB	IEC 60695-11-10
	@Thickness 0.750 mm	@Thickness 0.0295 in	
	HB	HB	UL94
	@Thickness 0.750 mm	@Thickness 0.0295 in	

Processing Properties	Metric	English	Comments
Melt Temperature	250 °C	482 °F	Optimum
	240 - 260 °C	464 - 500 °F	
Mold Temperature	80.0 °C	176 °F	optimum
	30.0 - 130 °C	86.0 - 266 °F	
Drying Temperature	110 - 130 °C	230 - 266 °F	
Dry Time	2.00 - 4.00 hour	2.00 - 4.00 hour	
Moisture Content	<= 0.040 %	<= 0.040 %	

Descriptive Properties	Value	Comments
Additive	Hydrolysis Resistant	
	Lubricant	
Appearance	Black Color	
Drying Recommended	Yes	

Features Descriptive Properties	Chemical Resistance, Good Value	Comments
	Dimensional Stability, Good	
	Flow, High	
	Hydrolysis Resistant	
	Moisture Absorption, Low	
	Processability, Good	
	Viscosity, Low	
Filler	Glass fiber reinforcement	
Forms	Pellets	
Generic	PBT	
Material Status	Current	
Part Marking Code	>PBT-IGF30<	ISO 11469
Polymer Family	Polyester	
Polymer Type	PBT	
Processing Method	Injection Molding	
Product Category	Glass Reinforced Resins	
	Hydrolysis Resistant Resins	
Region Available - Global	Yes	
Resin Identification	PBT-IGF30	ISO 1043
RoHS Compliance	Contact Manufacturer	
Uses	Automotive Applications	
	Connectors	
	Electrical/Electronic Applications	
	Industrial Applications	
	Parts, Engineering	
	Parts, Industrial	
	Parts, Machine/Mechanical	

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