

DuPont Performance Polymers Crastin® S600F10 BK851 PBT (Unverified Data**)

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

Material Notes:

Crastin® S600F10 BK851 is an unreinforced, lubricated, medium high viscosity, black polybutylene terephthalate resin 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-S600F10-BK851-PBT-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Density	1.30 g/cc	0.0470 lb/in ³	ISO 1183

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	57.0 MPa @Temperature 23.0 °C	8270 psi @Temperature 73.4 °F	ISO 527
Elongation at Break	>= 50 % @Temperature 23.0 °C	>= 50 % @Temperature 73.4 °F	nominal; ISO 527
	>= 50 % @Temperature 23.0 °C	>= 50 % @Temperature 73.4 °F	50mm/min; ISO 527
Elongation at Yield	6.0 % @Temperature 23.0 °C	6.0 % @Temperature 73.4 °F	ISO 527
Tensile Modulus	2.60 GPa @Temperature 23.0 °C	377 ksi @Temperature 73.4 °F	ISO 527
Flexural Strength	85.0 MPa @Temperature 23.0 °C	12300 psi @Temperature 73.4 °F	ISO 178
Izod Impact, Notched (ISO)	4.00 kJ/m ² @Temperature 23.0 °C	1.90 ft-lb/in ² @Temperature 73.4 °F	ISO 180/1A
Charpy Impact, Notched	0.500 J/cm ² @Temperature 23.0 °C	2.38 ft-lb/in ² @Temperature 73.4 °F	ISO 179/1eA

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)	140 °C	284 °F	ISO 75-1/-2

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	60.0 °C	140 °F	Annealed; ISO 75-1/-2
UL RTI, Electrical	130 °C	266 °F	UL 746B
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	130 °C	266 °F	
	@Thickness 0.750 mm	@Thickness 0.0295 in	
UL RTI, Mechanical with Impact	130 °C	266 °F	UL 746B
	@Thickness 3.00 mm	@Thickness 0.118 in	
	130 °C	266 °F	
	@Thickness 6.00 mm	@Thickness 0.236 in	
UL RTI, Mechanical without Impact	115 °C	239 °F	UL 746B
	@Thickness 0.750 mm	@Thickness 0.0295 in	
	115 °C	239 °F	
	@Thickness 1.50 mm	@Thickness 0.0591 in	
Flammability, UL94	115 °C	239 °F	UL 746B
	@Thickness 6.00 mm	@Thickness 0.236 in	
	115 °C	239 °F	
	@Thickness 3.00 mm	@Thickness 0.118 in	
UL RTI, Mechanical without Impact	120 °C	248 °F	UL 746B
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	120 °C	248 °F	
	@Thickness 3.00 mm	@Thickness 0.118 in	
UL RTI, Mechanical without Impact	120 °C	248 °F	UL 746B
	@Thickness 6.00 mm	@Thickness 0.236 in	
	120 °C	248 °F	
	@Thickness 0.750 mm	@Thickness 0.0295 in	
Flammability, UL94	HB	HB	IEC 60695-11-10
	@Thickness 6.00 mm	@Thickness 0.236 in	
Flammability, UL94	HB	HB	IEC 60695-11-10
	@Thickness 3.00 mm	@Thickness 0.118 in	

Thermal Properties	HB Metric	HB English	Comments
	@Thickness 1.50 mm	@Thickness 0.0591 in	UL94
	HB	HB	UL94
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	HB	HB	UL94
	@Thickness 3.00 mm	@Thickness 0.118 in	
	HB	HB	UL94
	@Thickness 6.00 mm	@Thickness 0.236 in	
Oxygen Index	21 %	21 %	ISO 4589-1/-2

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	Lubricant	
Appearance	Black Color	
Drying Recommended	Yes	
Features	Chemical Resistance, Good	
	Dimensional Stability, Good	
	Lubricated	
	Moisture Absorption, Low	
	Processability, Good	
	Viscosity, High	
	Viscosity, Medium-High	

Descriptive Properties	Value	Comments
Generic	PBT	
Material Status	Current	
Part Marking Code	>PBT<	ISO 11469
Processing Method	Injection Molding	
Product Category	Unreinforced Resins	
Region Available - Global	Yes	
Resin Identification	PBT	ISO 1043
RoHS Compliance	Contact Manufacturer	
Uses	Automotive Applications	
	Electrical Parts	
	Electrical/Electronic Applications	
	Parts, Engineering	
	Parts, Industrial	
	Parts, Machine/Mechanical	
	Parts, Thick-walled	

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