

DuPont Performance Polymers Crastin® S620F20 BK851 PBT (Unverified Data**)

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

Material Notes:

Crastin® S620F20 BK851 is an unreinforced, nucleated, lubricated, medium viscosity, black polybutylene terephthalate resin for fast injection molding. Information provided by DuPont Performance Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Crastin-S620F20-BK851-PBT-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Density	1.31 g/cc	0.0473 lb/in ³	ISO 1183

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	59.0 MPa @Temperature 23.0 °C	8560 psi @Temperature 73.4 °F	ISO 527
Elongation at Break	30 % @Temperature 23.0 °C	30 % @Temperature 73.4 °F	nominal; ISO 527
	>= 50 % @Temperature 23.0 °C	>= 50 % @Temperature 73.4 °F	50mm/min; ISO 527
Elongation at Yield	8.0 % @Temperature 23.0 °C	8.0 % @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	88.0 MPa @Temperature 23.0 °C	12800 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	0.400 J/cm ² @Temperature 23.0 °C	1.90 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)	145 °C	293 °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 3.00 mm	@Thickness 0.118 in	
	130 °C	266 °F	
	@Thickness 6.00 mm	@Thickness 0.236 in	
UL RTI, Mechanical with Impact	130 °C	266 °F	UL 746B
	@Thickness 0.750 mm	@Thickness 0.0295 in	
	130 °C	266 °F	
	@Thickness 1.50 mm	@Thickness 0.0591 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 3.00 mm	@Thickness 0.118 in	
	115 °C	239 °F	
	@Thickness 6.00 mm	@Thickness 0.236 in	
Flammability, UL94	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	
Flammability, UL94	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	IEC 60695-11-10
	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	
Glow Wire Test	750 °C	1380 °F	IEC 60695-2-12
	@Thickness 3.00 mm	@Thickness 0.118 in	

Electrical Properties	Metric	English	Comments
Comparative Tracking Index	250 V	250 V	UL 746A
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	600 V	600 V	IEC 60112
	@Temperature 23.0 °C	@Temperature 73.4 °F	

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	

Descriptive Properties	Dimensional Stability, Good Value	Comments
	Lubricated	
	Moisture Absorption, Low	
	Nucleated	
	Processability, Good	
	Viscosity, Medium	
Forms	Pellets	
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	
	Industrial Applications	
	Parts, Engineering	
	Parts, Machine/Mechanical	
	Parts, Thin-walled	

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