

DuPont Performance Polymers Crastin® LW9020FR BK851 PBT (Unverified Data**)

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , Polybutylene Terephthalate (PBT), 20% Glass Fiber Filled

Material Notes:

Crastin® LW9020FR BK851 is a 20% glass fiber reinforced, flame retardant, black polybutylene terephthalate alloy for injection molding. It has improved surface aesthetics, excellent dimensional stability and low warpage characteristics. Information provided by DuPont Performance Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Crastin-LW9020FR-BK851-PBT-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Density	1.50 g/cc	0.0542 lb/in ³	ISO 1183
Filler Content	20 %	20 %	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	100 MPa @Temperature 23.0 °C	14500 psi @Temperature 73.4 °F	ISO 527
Elongation at Break	2.0 % @Temperature 23.0 °C	2.0 % @Temperature 73.4 °F	ISO 527
Tensile Modulus	7.80 GPa @Temperature 23.0 °C	1130 ksi @Temperature 73.4 °F	ISO 527
Flexural Strength	140 MPa @Temperature 23.0 °C	20300 psi @Temperature 73.4 °F	ISO 178
Izod Impact, Notched (ISO)	5.50 kJ/m ² @Temperature 23.0 °C	2.62 ft-lb/in ² @Temperature 73.4 °F	ISO 180/1A
Charpy Impact Unnotched	3.50 J/cm ² @Temperature 23.0 °C	16.7 ft-lb/in ² @Temperature 73.4 °F	ISO 179/1eU
Charpy Impact, Notched	0.650 J/cm ² @Temperature 23.0 °C	3.09 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 1.8 MPa (264 psi)	170 °C	338 °F	ISO 75-1/-2

Thermal Properties <small>UL RTI, Electrical</small>	Metric	English	Comments <small>UL 746B</small>
	@Thickness 0.750 mm	@Thickness 0.0295 in	
	140 °C	284 °F	UL 746B
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	140 °C	284 °F	UL 746B
	@Thickness 3.00 mm	@Thickness 0.118 in	
	140 °C	284 °F	UL 746B
	@Thickness 6.00 mm	@Thickness 0.236 in	
UL RTI, Mechanical with Impact	115 °C	239 °F	UL 746B
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	115 °C	239 °F	UL 746B
	@Thickness 0.750 mm	@Thickness 0.0295 in	
	120 °C	248 °F	UL 746B
	@Thickness 6.00 mm	@Thickness 0.236 in	
	120 °C	248 °F	UL 746B
	@Thickness 3.00 mm	@Thickness 0.118 in	
UL RTI, Mechanical without Impact	120 °C	248 °F	UL 746B
	@Thickness 0.750 mm	@Thickness 0.0295 in	
	120 °C	248 °F	UL 746B
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	130 °C	266 °F	UL 746B
	@Thickness 3.00 mm	@Thickness 0.118 in	
	130 °C	266 °F	UL 746B
	@Thickness 6.00 mm	@Thickness 0.236 in	
Flammability, UL94	V-0	V-0	IEC 60695-11-10
	@Thickness 6.00 mm	@Thickness 0.236 in	
	V-0	V-0	IEC 60695-11-10
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	V-0	V-0	IEC 60695-11-10
	@Thickness 3.00 mm	@Thickness 0.118 in	
	V-0	V-0	

Thermal Properties	Metric	English	UL 94 Comments
	V-0 @Thickness 1.50 mm	V-0 @Thickness 0.0591 in	UL94
	@Thickness 3.00 mm	@Thickness 0.118 in	
	V-0 @Thickness 6.00 mm	V-0 @Thickness 0.236 in	UL94

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
Appearance	Black Color	
Drying Recommended	Yes	
Features	Appearance, Pleasing Surface	
	Chemical Resistance, Good	
	Dimensional Stability, Good	
	Flame Retardant	
	Moisture Absorption, Low	
	Processability, Good	
	Warp Resistant	
	Warpage, Low	
Filler	Glass fiber reinforcement	
Forms	Pellets	
Generic	PBT Alloy	

Material Status Descriptive Properties	Current Value	Comments
Part Marking Code	>PBT+ASA-GF20FR(17)<	ISO 11469
Polymer Family	Polyester	
Polymer Type	PBT	
Processing Method	Injection Molding	
Product Category	Flame Retardant Resins	
	Glass Reinforced Resins	
	Low Warp Resins	
Region Available - Global	Yes	
Resin Identification	PBT+ASA-GF20FR(17)	ISO 1043
RoHS Compliance	Contact Manufacturer	
Uses	Housings	
	Industrial Applications	

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