DuPont™ Crastin® PBT

thermoplastic polyester resin

Crastin® LW9020FR BK851

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.

Property	Test Method	Units	Value
Identification			
Resin Identification	ISO 1043		PBT+ASA-GF20FR(17)
Part Marking Code	ISO 11469		>PBT+ASA-GF20FR(17)<
Mechanical			
Stress at Break	ISO 527	MPa (kpsi)	100 (14.5)
Strain at Break	ISO 527	%	2
Tensile Modulus	ISO 527	MPa (kpsi)	7800 (1130)
Flexural Strength	ISO 178	MPa (kpsi)	140 (20.3)
Notched Charpy Impact Strength	ISO 179/1eA	kJ/m^2	6.5
Unnotched Charpy Impact Strength	ISO 179/1eU	kJ/m^2	35
Thermal			
Deflection Temperature	ISO 75f	°C (°F)	
1.80MPa			170 (338)
Melting Temperature	ISO 11357-1/-3	°C (°F)	
10°C/min			225 (437)
Flammability			
Flammability Classification	IEC 60695-11-10		
1.5mm			V-0
Flammability Classification	UL94		
1.5mm			V-0

Contact DuPont for Material Safety Data Sheet, general guides and/or additional information about ventilation, handling, purging, drying, etc.
ISO Mechanical properties measured at 4.0mm, ISO Electrical properties measured at 2.0mm, and all ASTM properties measured at 3.2mm.
Test temperatures are 23°C unless otherwise stated.

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Property	Test Method	Units	Value
Temperature Index			
RTI, Electrical	UL 746B	°C	
0.75mm			140
RTI, Impact	UL 746B	°C	
0.75mm			115
1.5mm			115
3.0mm			120
RTI, Strength	UL 746B	°C	
0.75mm			120
1.5mm			120
3.0mm			130
Other			
Density	ISO 1183	kg/m^3 (g/cm^3)	1500 (1.50)
Processing			
Melt Temperature Range		°C (°F)	240-260 (465-500)
Melt Temperature Optimum		°C (°F)	250 (480)
Mold Temperature Range		°C (°F)	30-130 (85-265)
Mold Temperature Optimum		°C (°F)	80 (175)
Drying Time, Dehumidified Dryer		h	2-4
Drying Temperature		°C (°F)	110-130 (230-265)
Processing Moisture Content		%	<0.04

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