

# 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
<b>Identification</b>			
Resin Identification	ISO 1043		PBT+ASA-GF20FR(17)
Part Marking Code	ISO 11469		>PBT+ASA-GF20FR(17)<
<b>Mechanical</b>			
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 <sup>2</sup>	6.5
Unnotched Charpy Impact Strength	ISO 179/1eU	kJ/m <sup>2</sup>	35
<b>Thermal</b>			
Deflection Temperature 1.80MPa	ISO 75f	°C (°F)	170 (338)
Melting Temperature 10°C/min	ISO 11357-1/-3	°C (°F)	225 (437)
<b>Flammability</b>			
Flammability Classification 1.5mm	IEC 60695-11-10		V-0
Flammability Classification 1.5mm	UL94		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
<b>Temperature Index</b>			
RTI, Electrical 0.75mm	UL 746B	°C	140
RTI, Impact 0.75mm	UL 746B	°C	115
1.5mm			115
3.0mm			120
RTI, Strength 0.75mm	UL 746B	°C	120
1.5mm			120
3.0mm			130
<b>Other</b>			
Density	ISO 1183	kg/m <sup>3</sup> (g/cm <sup>3</sup> )	1500 (1.50)
<b>Processing</b>			
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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