

DuPont™ Crastin® PBT

thermoplastic polyester resin

Crastin® T803 BK851

Crastin® T803 BK851 is a 20% glass fiber reinforced, black polybutylene terephthalate resin for injection molding. It has improved impact resistance and good processing characteristics.

Property	Test Method	Units	Value
Identification			
Resin Identification	ISO 1043		PBTC-GF20
Part Marking Code	ISO 11469		>PBTC-GF20<
Mechanical			
Stress at Break	ISO 527	MPa (kpsi)	85 (12.3)
Strain at Break	ISO 527	%	5
Tensile Modulus	ISO 527	MPa (kpsi)	4900 (710)
Flexural Strength	ISO 178	MPa (kpsi)	140 (20.3)
Notched Charpy Impact Strength	ISO 179/1eA	kJ/m ²	10
Unnotched Charpy Impact Strength	ISO 179/1eU	kJ/m ²	60
Thermal			
Melting Temperature 10°C/min	ISO 11357-1/-3	°C (°F)	205 (400)
Flammability			
Flammability Classification 0.75mm	IEC 60695-11-10		HB
Flammability Classification 0.75mm	UL94		HB

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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Crastin® T803 BK851

Property	Test Method	Units	Value
Temperature Index			
RTI, Electrical 0.75mm	UL 746B	°C	75
RTI, Impact 0.75mm	UL 746B	°C	75
RTI, Strength 0.75mm	UL 746B	°C	75
Other			
Density	ISO 1183	kg/m ³ (g/cm ³)	1430 (1.43)
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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