

# DuPont™ Crastin® PBT

thermoplastic polyester resin

## Crastin® T805 BK851

Crastin® T805 BK851 is a 30% glass fiber reinforced, black polybutylene terephthalate resin for injection molding. It has improved impact resistance and good processing characteristics.

Property	Test Method	Units	Value
<b>Identification</b>			
Resin Identification	ISO 1043		PBTC-GF30
Part Marking Code	ISO 11469		>PBTC-GF30<
<b>Mechanical</b>			
Stress at Break	ISO 527	MPa (kpsi)	106 (15.4)
Strain at Break	ISO 527	%	4
Tensile Modulus	ISO 527	MPa (kpsi)	7000 (1020)
Flexural Strength	ISO 178	MPa (kpsi)	165 (23.9)
Notched Charpy Impact Strength	ISO 179/1eA	kJ/m <sup>2</sup>	13
Unnotched Charpy Impact Strength	ISO 179/1eU	kJ/m <sup>2</sup>	70
<b>Thermal</b>			
Deflection Temperature 1.80MPa	ISO 75f	°C (°F)	185 (365)
Melting Temperature 10°C/min	ISO 11357-1/-3	°C (°F)	205 (400)
<b>Flammability</b>			
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® T805 BK851

Property	Test Method	Units	Value
<b>Temperature Index</b>			
RTI, Electrical	UL 746B	°C	130
0.75mm			
1.5mm			140
RTI, Impact	UL 746B	°C	130
0.75mm			
RTI, Strength	UL 746B	°C	130
0.75mm			
1.5mm			140
<b>Other</b>			
Density	ISO 1183	kg/m <sup>3</sup> (g/cm <sup>3</sup> )	1510 (1.51)
<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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