

DuPont™ Crastin® PBT

thermoplastic polyester resin

Crastin® T841FR BK851

Crastin® T841FR BK851 is a 10% glass fiber reinforced, improved impact, flame retardant, black polybutylene terephthalate resin for injection molding.

Property	Test Method	Units	Value
Identification			
Resin Identification	ISO 1043		PBTC-GF10FR(17)
Part Marking Code	ISO 11469		>PBTC-GF10FR(17)<
Mechanical			
Stress at Break	ISO 527	MPa (kpsi)	68 (9.9)
Strain at Break	ISO 527	%	4.5
Tensile Modulus	ISO 527	MPa (kpsi)	4000 (580)
Flexural Strength	ISO 178	MPa (kpsi)	110 (16.0)
Notched Charpy Impact Strength	ISO 179/1eA	kJ/m ²	7.5
Unnotched Charpy Impact Strength	ISO 179/1eU	kJ/m ²	45
Thermal			
Deflection Temperature 1.80MPa	ISO 75f	°C (°F)	170 (340)
Melting Temperature 10°C/min	ISO 11357-1/-3	°C (°F)	205 (401)
Electrical			
CTI	IEC 60112	V	225
CTI	UL 746A	V	275
Flammability			
Flammability Classification 1.5mm	IEC 60695-11-10		V-0
Flammability Classification 1.5mm	UL94		V-0
Oxygen Index	ISO 4589-1/-2	%	31

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. The DuPont Oval Logo, DuPont™, The miracles of science™ and Crastin® are trademarks or registered trademarks of DuPont Company. Copyright

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~~these data may not be valid for such material used in combination with any other materials, additives or pigments or in any process, unless expressly indicated otherwise.~~

The data provided should not be used to establish specification limits or used alone as the basis of design; they are not intended to substitute for any testing you may need to conduct to determine for yourself the suitability of a specific material for your particular purposes. Since DuPont cannot anticipate all variations in actual end-use conditions DuPont makes no warranties and assumes no liability in connection with any use of this information. Nothing in this publication is to be considered as a license to operate under or a recommendation to infringe any patent rights. DuPont advises you to seek independent counsel for a freedom to practice opinion on the intended application or end-use of our products. Caution: Do not use this product in medical applications involving permanent implantation in the human body.

For other medical applications see "DuPont Medical Caution Statement", H-50102.



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Flammability			
Glow Wire Flammability Index 3.0mm	IEC 60695-2-1	°C	960
High Amperage Arc Ignition Resistance 1.5mm	UL 746A	arcs	120
3.0mm			127
6.0mm			120
Hot Wire Ignition 1.5mm	UL 746A	s	38
3.0mm			79
6.0mm			119
Temperature Index			
RTI, Electrical 1.5mm	UL 746B	°C	130
RTI, Impact 1.5mm	UL 746B	°C	120
3.0mm			130
RTI, Strength 1.5mm	UL 746B	°C	130
Other			
Density	ISO 1183	kg/m ³ (g/cm ³)	1530 (1.53)
Molding Shrinkage Normal, 2.0mm	ISO 294-4	%	1.1
Parallel, 2.0mm			0.9
Processing			
Melt Temperature Range		°C (°F)	240-260 (465-500)
Melt Temperature Optimum		°C (°F)	240 (465)
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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