

DuPont™ Crastin® PBT

thermoplastic polyester resin

Crastin® SK642FR BK851

Crastin® SK642FR BK851 is a black 15% glass fiber reinforced, flame retardant polybutylene terephthalate for injection molding. It has a UL94 V-0 rating @ 0.75mm.

Property	Test Method	Units	Value
Identification			
Resin Identification	ISO 1043		PBT-GF15FR(17)
Part Marking Code	ISO 11469		>PBT-GF15FR(17)<
Mechanical			
Stress at Break	ISO 527	MPa (kpsi)	100 (14.5)
Strain at Break	ISO 527	%	3.4
Tensile Modulus	ISO 527	MPa (kpsi)	7200 (1044)
Flexural Strength	ISO 178	MPa (kpsi)	155 (22.6)
Thermal			
Deflection Temperature	ISO 75-1/-2	°C (°F)	
0.45MPa			218 (424)
1.80MPa			203 (397)
8.00MPa			116 (240)
Melting Temperature	ISO 11357-1/-3	°C (°F)	
10°C/min			225 (437)
Flammability			
Flammability Classification	UL94		
0.75mm			V-0
1.5mm			V-0
3.0mm			V-0
Oxygen Index	ISO 4589-1/-2	%	32

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	140
1.5mm			
3.0mm	UL 746B	°C	140
RTI, Impact			
1.5mm	UL 746B	°C	130
3.0mm			
RTI, Strength	UL 746B	°C	140
1.5mm			
3.0mm			140
Other			
Density	ISO 1183	kg/m ³ (g/cm ³)	1580 (1.58)
Processing			
Melt Temperature Range		°C (°F)	240-260 (465-500)
Mold Temperature Range		°C (°F)	30-130 (85-265)
Mold Temperature Optimum		°C (°F)	80 (175)
Drying Temperature		°C (°F)	110-130 (230-265)
Processing Moisture Content		%	<0.04

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