## DuPont™ Crastin® SK643FR BK851 THERMOPLASTIC POLYESTER RESIN

Crastin® SK643FR BK851 is a 20% Glass Reinforced, Fla		•	
Product information	Value		Test Standard
Resin Identification	PBT-GF20FR(17)	-	ISO 1043
Part Marking Code	PBT-GF20FR(17)	-	ISO 11469
Rheological properties	Value		Test Standard
Moulding shrinkage, parallel	0.5		ISO 294-4, 2577
Moulding shrinkage, normal	1.2		ISO 294-4, 2577
Moulding shrinkage, parallel, annealed	0.6		ISO 294-4
Moulding shrinkage, normal, annealed	1.45		ISO 294-4
Mechanical properties	Value		Test Standard
Tensile Modulus	8300	MPa	ISO 527-1/-2
Stress at break	110		ISO 527-1/-2
Strain at break	2.8	%	ISO 527-1/-2
Flexural Strength	165	MPa	ISO 178
Charpy impact strength, 23°C	50	kJ/m²	ISO 179/1eU
Charpy notched impact strength, 23°C	7.6	kJ/m²	ISO 179/1eA
Thermal properties	Value		Test Standard
Melting temperature, 10°C/min	225	°C	ISO 11357-1/-3
Temp. of deflection under load, 1.8 MPa	200	°C	ISO 75-1/-2
RTI, electrical			UL 746B
0.75mm	140	°C	
1.5mm	140	°C	
3mm	140	°C	
6mm	140	°C	
RTI, impact			UL 746B
0.75mm	130	°C	
1.5mm	130	°C	
3mm	130	°C	
6mm	130	°C	
RTI, strength			UL 746B
0.75mm	140	°C	
1.5mm	140	°C	
3mm	140	°C	
6mm	140	°C	
- - - - - -	Value		Test Standard
Burning Behav. at 1.5mm nom. thickn.	V-0	class	IEC 60695-11-10
Thickness tested	1.5	mm	IEC 60695-11-10
UL recognition	yes	-	UL 94
Burning Behav. at thickness h	V-0	class	IEC 60695-11-10
Thickness tested	0.75	mm	IEC 60695-11-10
UL recognition	yes	-	UL 94
Oxygen index	32	%	ISO 4589-1/-2
FMVSS Class		-	ISO 3795 (FMVSS 302)
Electrical properties	Value		Test Standard
Comparative tracking index	225		IEC 60112
Other properties	Value		Test Standard
Humidity absorption, 2mm	0.13		Sim. to ISO 62
Water absorption, 2mm	0.32		Sim. to ISO 62
Density	1630	kg/m³	ISO 1183
njection	Value	Unit	Test Standard
Drying Recommended		<del>- Or</del> iic -	-
Drying Temperature	yes >120	°C	
vrying reinperature	≥120	L .	-

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To find out more, visit DuPont Performance Polymers or contact nearest DuPont location.

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Drying Time, Dehumidified Dryer	2 - 4	h	-	
Processing Moisture Content	≤0.04	%	-	
Melt Temperature Optimum	250	°C	-	
Min. melt temperature	240	°C	-	
Max. melt temperature	260	°C	-	
Mold Temperature Optimum	80	°C	-	
Min. mould temperature	30	°C	-	
Max. mould temperature	130	°C	-	
Hold pressure range	≥60	MPa	-	
Hold pressure time	3	s/mm	-	
Back pressure	As low as possible		-	
Eiection temperature	170	°C	-	

## Characteristics

Regional Availability

- · North America
- Europe

- Asia Pacific
- Near East/Africa
- South and Central America Global

Contact DuPont for Material Safety Data Sheet, general guides and/or additional information about ventilation, handling, purging, drying, etc. ISO Mechanical properties measured at 4mm (Hytrel® measured at 2 mm), IEC Electrical properties measured at 2mm, all ASTM properties measured at 3.2mm, and test temperatures are 23°C unless otherwise stated.

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