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DuPont™ Crastin [®] SK643FR BK851									
Duront Clastin Skotsi k Dkosi									
THERMOPLASTIC POLYESTE	R RFSIN								
Product Information									
Crastin® SK643FR BK851 is a 20% Glass Reinforced, Flame Retardant, Polybutylene Terephthalate									
General information	Value	· ·	Test Standard						
Resin Identification	PBT-GF20FR(17)	-	ISO 1043						
Part Marking Code	PBT-GF20FR(17)	-	ISO 11469						
Rheological properties	Value	Unit	Test Standard						
Molding shrinkage, parallel	0.5	%	ISO 294-4, 2577						
Molding shrinkage, normal	1.2	%	ISO 294-4, 2577						
Molding shrinkage, parallel, annealed	0.6	%	ISO 294-4						
Molding shrinkage, normal, annealed	1.45	%	ISO 294-4						
Mechanical properties	Value	Unit	Test Standard						
Tensile Modulus	8300	MPa	ISO 527-1/-2						
Stress at break	110	MPa	ISO 527-1/-2						
Strain at break	2.8	%	ISO 527-1/-2						
Flexural Strength	165	MPa	ISO 178						
Charpy impact strength, 73°F	50	kJ/m²	ISO 179/1eU						
Charpy notched impact strength, 73°F	7.6	kJ/m²	ISO 179/1eA						
Thermal properties	Value	Unit	Test Standard						
Melting temperature, 18°F/min	225	°C	ISO 11357-1/-3						
Temp. of deflection under load, 260 psi	200	°C	ISO 75-1/-2						
RTI, electrical			UL 746B						
30mil	140	°C							
60mil	140	°C							
120mil	140	°C							
240mil	140	°C							
RTI, impact			UL 746B						
30mil	130	°C							
60mil	130	°C							
120mil	130	°C							
240mil	130	°C							
RTI, strength			UL 746B						
30mil	140	°C							
60mil	140	°C							
120mil	140	°C							
240mil	140	°C							
Flammability	Value	Unit	Test Standard						
Burning Behav. at 60mil 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		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	DNI	-	ISO 3795 (FMVSS 302)						
Electrical properties	Value 225	Unit	Test Standard IEC 60112						
Comparative tracking index	Z25 Value	- Unit							
Other properties Humidity absorption, 80mil	0.13	%	Test Standard Sim. to ISO 62						
Water absorption, 80mil	0.13	%	Sim. to ISO 62						
Density	1630		ISO 1183						
	1030	Ng/III ⁻	Tost Standard						

Revised: 2017-02-02

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

North America

Injection

Europe/Middle East/Africa

Value

yes

120

°C

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Test Standard

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Tel: +1 302 999-4592 Toll-Free (USA): 800 441-0575

Drying Recommended

Drying Temperature

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DuPont[™] Crastin[®] SK643FR BK851 THERMOPLASTIC POLYESTER RESIN

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. mold temperature		30	°C	-	
Max. mold temperature		130	°C	-	
Hold pressure range		≥60	MPa	-	
Hold pressure time		3	s/mm	-	
Back pressure		As low as possible		-	
Ejection temperature		170	°C	-	
Characteristics					
Regional Availability	 North America 	• Asi	Asia Pacific		 Near East/Africa
	 Europe 	• Sou	 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 160 mil (Hytrel® measured at 80 mil), IEC Electrical properties measured at 80 mil, all ASTM properties measured at 120 mil, and test temperatures are 73°F unless otherwise stated.

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Revised: 2017-02-02

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