

Crastin® S650FR BK851

THERMOPLASTIC POLYESTER RESIN

DuPont Performance Polymers

Message:

Unreinforced, Flame Retardant, Polybutylene Terephthalate

General Information			
UL YellowCard	E41938-257812		
Agency Ratings	UL Unspecified Rating		
Processing Method	Injection Molding		
Part Marking Code (ISO 11469)	>PBT-FR(17)<		
Resin ID (ISO 1043)	PBT-FR(17)		
Physical	Nominal Value	Unit	Test Method
Density	1.46	g/cm ³	ISO 1183
Molding Shrinkage			ISO 294-4
Across Flow	1.6	%	
Flow	1.8	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3000	MPa	ISO 527-2
Tensile Stress (Yield)	65.0	MPa	ISO 527-2
Tensile Strain (Yield)	4.6	%	ISO 527-2
Nominal Tensile Strain at Break	7.2	%	ISO 527-2
Flexural Stress	100	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	3.4	kJ/m ²	
23°C	3.8	kJ/m ²	
Charpy Unnotched Impact Strength (23°C)	60	kJ/m ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	160	°C	ISO 75-2/B
1.8 MPa, Unannealed	65.0	°C	ISO 75-2/A
Melting Temperature ¹	225	°C	ISO 11357-3
Flammability	Nominal Value	Unit	Test Method
Flammability Classification			IEC 60695-11-10, -20
0.750 mm	V-0		
1.50 mm	V-0		
Oxygen Index	30	%	ISO 4589-2
NOTE			
1.	10°C/min		

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