

Crastin® S650FR NC010

THERMOPLASTIC POLYESTER RESIN

DuPont Performance Polymers

Message:

Unreinforced, Flame Retardant, Polybutylene Terephthalate

General Information			
UL YellowCard	E41938-257812		
Agency Ratings	UL Unspecified Rating		
Forms	Pellets		
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	2.2	%	
Across Flow	1.6	%	
Flow	1.8	%	
Flow ²	2.2	%	
Water Absorption			ISO 62
23°C, 24 hr, 2.00 mm	0.39	%	
Equilibrium, 23°C, 2.00 mm, 50% RH	0.15	%	
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
Tensile Creep Modulus			ISO 899-1
1 hr	2500	MPa	
1000 hr	1800	MPa	
Flexural Stress	100	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	3.3	kJ/m ²	
23°C	3.8	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	67	kJ/m ²	
23°C	70	kJ/m ²	
Notched Izod Impact Strength			ISO 180/1A

-30°C	4.0	kJ/m ²	
23°C	4.0	kJ/m ²	
Unnotched Izod Impact Strength			ISO 180/1U
-30°C	42	kJ/m ²	
23°C	45	kJ/m ²	
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
Vicat Softening Temperature	175	°C	ISO 306/B50
Melting Temperature ³	225	°C	ISO 11357-3
CLTE			ISO 11359-2
Flow	1.2E-4	cm/cm/°C	
Transverse	1.2E-4	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+15	ohms	IEC 60093
Volume Resistivity	> 1.0E+15	ohms·cm	IEC 60093
Electric Strength	25	kV/mm	IEC 60243-1
Relative Permittivity			IEC 60250
100 Hz	3.50		
1 MHz	3.50		
Dissipation Factor			IEC 60250
100 Hz	1.7E-3		
1 MHz	0.018		
Comparative Tracking Index	225	V	IEC 60112
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.	Annealed		
2.	Annealed		
3.	10°C/min		

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