Crastin® SK642FR NC010

THERMOPLASTIC POLYESTER RESIN

DuPont Performance Polymers

Message:

15% Glass Reinforced, Flame Retardant, Polybutylene Terephthalate

General Information	
UL YellowCard	E41938-257824
Filler / Reinforcement	Glass Fiber,15% Filler by Weight
Agency Ratings	UL Unspecified Rating
Forms	Pellets
Processing Method	Injection Molding
Multi-Point Data	Shear Stress vs. Shear Rate (ISO 11403-1) Specific Volume vs Temperature (ISO 11403-2) Viscosity vs. Shear Rate (ISO 11403-2)
Part Marking Code (ISO 11469)	>PBT-GF15FR(17)<
Resin ID (ISO 1043)	PBT-GF15FR(17)

Physical	Nominal Value	Unit	Test Method
Density	1.58	g/cm³	ISO 1183
Molding Shrinkage			ISO 294-4
Across Flow [1]	1.5	%	
Across Flow	1.2	%	
Flow	0.70	%	
Flow [2]	0.80	%	
Water Absorption			ISO 62
23°C, 24 hr, 2.00 mm	0.33	%	
Equilibrium, 23°C, 2.00 mm, 50% RH	0.14	%	

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	7200	MPa	ISO 527-2
Tensile Stress (Break)	100	MPa	ISO 527-2
Tensile Strain (Break)	3.4	%	ISO 527-2
Tensile Creep Modulus			ISO 899-1
1 hr	6000	MPa	
1000 hr	4800	MPa	
Flexural Stress	155	MPa	ISO 178

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	7.1	kJ/m²	
23°C	8.0	kJ/m²	

Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	44	kJ/m²	
23°C	53	kJ/m²	
Notched Izod Impact Strength			ISO 180/1A
-30°C	6.0	kJ/m²	
23°C	7.0	kJ/m²	
Unnotched Izod Impact Strength			ISO 180/1U
-30°C	32	kJ/m²	
23°C	33	kJ/m²	
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature			
0.45 MPa, Unannealed	218	°C	ISO 75-2/B
1.8 MPa, Unannealed	203	°C	ISO 75-2/A
Vicat Softening Temperature	207	°C	ISO 306/B50
Melting Temperature [3]	225	°C	ISO 11357-3
CLTE			ISO 11359-2
Flow	5.0E-5	cm/cm/°C	
Transverse	1.1E-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	28	kV/mm	IEC 60243-1
Relative Permittivity			IEC 60250
100 Hz	3.70		
1 MHz	3.50		
Dissipation Factor			IEC 60250
100 Hz	3.0E-3		
1 MHz	0.017		
Comparative Tracking Index	250	V	IEC 60112
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flammability Classification			IEC 60695-11-10, -20
0.800 mm	V-0		
1.50 mm	V-0		
Oxygen Index	31	%	ISO 4589-2
Fill Analysis	**Nominal Value**	**Unit**	
Melt Density	1.37	g/cm³	
Specific Heat Capacity of Melt	1740	J/kg/°C	
Thermal Conductivity of Melt	0.27	W/m/K	
NOTE			
1.	Annealed		
2.	Annealed		
3.	10°C/min		

Recommended distributors for this material

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