Crastin® SK615SF NC010

THERMOPLASTIC POLYESTER RESIN

DuPont Performance Polymers

Message:

30% Glass Reinforced Low Viscosity Polybutylene Terephthalate Developed for Super Fast Production

General Information			
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Additive	Mold Release		
Forms	Pellets		
Processing Method	Injection Molding		
Multi-Point Data	Isothermal Stress vs. Strain (ISO 11403-1) Secant Modulus vs. Strain (ISO 11403-1)		
Part Marking Code (ISO 11469)	>PBT-GF30<		
Resin ID (ISO 1043)	PBT-GF30		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.54	g/cm³	ISO 1183
Molding Shrinkage			ISO 294-4
Across Flow	1.1	%	
Flow	0.30	%	
Water Absorption			ISO 62
23°C, 24 hr, 2.00 mm	0.35	%	
Equilibrium, 23°C, 2.00 mm, 50% RH	0.15	%	
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	10000	MPa	ISO 527-2
Tensile Stress (Break)	150	MPa	ISO 527-2
Tensile Strain (Break)	2.5	%	ISO 527-2
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength (23°C)	9.0	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	30	kJ/m²	
23°C	60	kJ/m²	
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature (1.8 MPa, Unannealed)	210	°C	ISO 75-2/A
Melting Temperature [1]	223	°C	ISO 11357-3
CLTE			ISO 11359-2
Flow	3.0E-5	cm/cm/°C	
Transverse	8.0E-5	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	31	kV/mm	IEC 60243-1
Relative Permittivity			IEC 60250
100 Hz	4.40		
1 MHz	3.80		
Dissipation Factor			IEC 60250
100 Hz	2.5E-3		
1 MHz	0.018		
Comparative Tracking Index	370	V	IEC 60112
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flammability Classification			IEC 60695-11-10, -20
1.50 mm	HB		
3.00 mm	HB		
Oxygen Index	19	%	ISO 4589-2
Fill Analysis	**Nominal Value**	**Unit**	
Melt Density	1.36	g/cm^3	
Specific Heat Capacity of Melt	1730	J/kg/°C	
Thermal Conductivity of Melt	0.28	W/m/K	
NOTE			
1.	10°C/min		

Recommended distributors for this material

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