

Crastin SK601 NC010

THERMOPLASTIC POLYESTER RESIN

DuPont Performance Polymers

Message:

10% Glass Reinforced Polybutylene Terephthalate

General Information			
UL YellowCard	E41938-257817		
Filler / Reinforcement	Glass Fiber,10% Filler by Weight		
Additive	Mold Release		
Agency Ratings	UL Unspecified Rating		
Forms	Pellets		
Processing Method	Injection Molding		
Multi-Point Data	Creep Modulus vs. Time (ISO 11403-1)		
	Isochronous Stress vs. Strain (ISO 11403-1)		
	Isothermal Stress vs. Strain (ISO 11403-1)		
	Secant Modulus vs. Strain (ISO 11403-1)		
	Shear Modulus vs. Temperature (ISO 11403-1)		
	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-GF10<		
Resin ID (ISO 1043)	PBT-GF10		
Physical	Nominal Value	Unit	Test Method
Density	1.37	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR)	18	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (250°C/2.16 kg)	15.0	cm³/10min	ISO 1133
Molding Shrinkage			ISO 294-4
Across Flow	1.2	%	
Flow	0.70	%	
Water Absorption			ISO 62
23°C, 24 hr, 2.00 mm	0.40	%	
Equilibrium, 23°C, 2.00 mm, 50% RH	0.20	%	
Viscosity Number	110	cm³/g	ISO 307
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	4500	MPa	ISO 527-2
Tensile Stress (Break)	90.0	MPa	ISO 527-2
Tensile Strain (Break)	4.7	%	ISO 527-2

Tensile Creep Modulus			ISO 899-1
1 hr	4000	MPa	
1000 hr	2500	MPa	
Flexural Stress	140	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	6.0	kJ/m ²	
23°C	6.0	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	40	kJ/m ²	
23°C	40	kJ/m ²	
Notched Izod Impact Strength			ISO 180/1A
-30°C	5.0	kJ/m ²	
23°C	4.5	kJ/m ²	
Unnotched Izod Impact Strength			ISO 180/1U
-30°C	26	kJ/m ²	
23°C	27	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	215	°C	ISO 75-2/B
1.8 MPa, Unannealed	175	°C	ISO 75-2/A
Vicat Softening Temperature	205	°C	ISO 306/B50
Melting Temperature ¹	225	°C	ISO 11357-3
CLTE			ISO 11359-2
Flow	6.0E-5	cm/cm/°C	
Transverse	1.2E-4	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	> 1.0E+15	ohms · cm	IEC 60093
Electric Strength	30	kV/mm	IEC 60243-1
Relative Permittivity			IEC 60250
100 Hz	3.90		
1 MHz	3.50		
Dissipation Factor			IEC 60250
100 Hz	2.0E-3		
1 MHz	0.020		
Comparative Tracking Index	300	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Burning Rate (1.00 mm)	36	mm/min	ISO 3795
Flammability Classification			IEC 60695-11-10, -20
0.800 mm	HB		
1.50 mm	HB		
Oxygen Index	20	%	ISO 4589-2

Fill Analysis	Nominal Value	Unit
Melt Density	1.19	g/cm ³
Specific Heat Capacity of Melt	1890	J/kg/°C
Thermal Conductivity of Melt	0.24	W/m/K
NOTE		
1.	10°C/min	

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

