

Crastin® SK605 NC010

THERMOPLASTIC POLYESTER RESIN

DuPont Performance Polymers

Message:

30% Glass Reinforced Polybutylene Terephthalate

General Information			
UL YellowCard	E41938-257820		
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Additive	Mold Release		
Uses	Profiles		
Agency Ratings	UL Unspecified Rating		
Forms	Pellets		
Processing Method	Extrusion		
	Injection Molding		
	Profile Extrusion		
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)		
	Tensile Modulus vs. Temperature (ISO 11403-1)		
	Tensile Modulus vs. Temperature, Dynamic (ISO 11403-1)		
Part Marking Code (ISO 11469)	>PBT-GF30<		
	PBT-GF30		
	PBT-GF30		
Physical	Nominal Value	Unit	Test Method
Density	1.53	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)	10	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (250°C/2.16 kg)	7.00	cm ³ /10min	ISO 1133
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	%	
Viscosity Number	100	cm ³ /g	ISO 307
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	10000	MPa	ISO 527-2
Tensile Stress (Break)	140	MPa	ISO 527-2
Tensile Strain (Break)	2.7	%	ISO 527-2
Tensile Creep Modulus			ISO 899-1
1 hr	9000	MPa	
1000 hr	6600	MPa	
Flexural Modulus	9000	MPa	ISO 178
Flexural Stress	200	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-40°C	10	kJ/m ²	
-30°C	11	kJ/m ²	
23°C	11	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-40°C	75	kJ/m ²	
-30°C	75	kJ/m ²	
23°C	70	kJ/m ²	
Notched Izod Impact Strength			ISO 180/1A
-40°C	10	kJ/m ²	
-30°C	10	kJ/m ²	
23°C	11	kJ/m ²	
Unnotched Izod Impact Strength			ISO 180/1U
-40°C	55	kJ/m ²	
-30°C	55	kJ/m ²	
23°C	60	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	220	°C	ISO 75-2/B
1.8 MPa, Unannealed	205	°C	ISO 75-2/A
Vicat Softening Temperature	215	°C	ISO 306/B50
Melting Temperature ¹	225	°C	ISO 11357-3
CLTE			ISO 11359-2
Flow	3.0E-5	cm/cm/°C	
Transverse	9.0E-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			
1 kHz	2.0E-3		ASTM D150
1 MHz	0.018		ASTM D150, IEC 60250
100 Hz	2.5E-3		IEC 60250
Comparative Tracking Index	450	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Burning Rate (1.00 mm)	41	mm/min	ISO 3795
Flammability Classification			IEC 60695-11-10, -20
0.750 mm	HB		
1.50 mm	HB		
Oxygen Index	19	%	ISO 4589-2
Fogging - F-value (refraction)	99	%	ISO 6452
Specific Heat Capacity of Melt	1730	J/kg/°C	
Thermal Conductivity of Melt	0.28	W/m/K	
Fill Analysis	Nominal Value	Unit	
Melt Density	1.36	g/cm ³	
NOTE			
1.	10°C/min		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

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

