

Crastin® SK608 BK509

THERMOPLASTIC POLYESTER RESIN

DuPont Performance Polymers

Message:

45% Glass Reinforced Polybutylene Terephthalate

General Information			
UL YellowCard	E41938-257821		
Filler / Reinforcement	Glass Fiber,45% 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	Isothermal Stress vs. Strain (ISO 11403-1)		
	Secant Modulus vs. Strain (ISO 11403-1)		
	Shear Modulus vs. Temperature (ISO 11403-1)		
Part Marking Code (ISO 11469)	>PBT-GF45<		
Resin ID (ISO 1043)	PBT-GF45		
Physical	Nominal Value	Unit	Test Method
Density	1.66	g/cm ³	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	0.30	%	
Equilibrium, 23°C, 2.00 mm, 50% RH	0.10	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	14200	MPa	ISO 527-2
Tensile Stress (Break)	140	MPa	ISO 527-2
Tensile Strain (Break)	2.0	%	ISO 527-2
Flexural Modulus	13300	MPa	ISO 178
Flexural Stress	210	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	10	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU

-30°C	65	kJ/m ²	
23°C	55	kJ/m ²	
Notched Izod Impact Strength			ISO 180/1A
-30°C	10	kJ/m ²	
23°C	10	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	222	°C	ISO 75-2/B
1.8 MPa, Unannealed	207	°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	2.0E-5	cm/cm/°C	
Transverse	8.0E-5	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	> 1.0E+15	ohms·cm	IEC 60093
Electric Strength	32	kV/mm	IEC 60243-1
Relative Permittivity			IEC 60250
100 Hz	4.10		
1 MHz	3.90		
Dissipation Factor			IEC 60250
100 Hz	3.8E-3		
1 MHz	0.013		
Comparative Tracking Index	475	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flammability Classification			IEC 60695-11-10, -20
0.750 mm	HB		
1.50 mm	HB		
Oxygen Index	20	%	ISO 4589-2
Fill Analysis	Nominal Value	Unit	
Melt Density	1.47	g/cm ³	
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

