

DuPont Performance Polymers Crastin® SK608 BK509 Polybutylene Terephthalate (PBT) (Unverified Data**)

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , Polybutylene Terephthalate (PBT), 50% Glass Fiber Filled

Material Notes:

45% Glass Reinforced Polybutylene Terephthalate Crastin SK608 BK509 is a 45% glass fiber reinforced lubricated black polybutylene terephthalate resin for injection molding. Information provided by DuPont Performance Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Crastin-SK608-BK509-Polybutylene-Terephthalate-PBT-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Density	1.47 g/cc	0.0531 lb/in ³	
	1.66 g/cc	0.0600 lb/in ³	ISO 1183
Water Absorption	0.30 %	0.30 %	Sim. to ISO 62
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Moisture Absorption	0.100 %	0.100 %	Sim. to ISO 62
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Linear Mold Shrinkage, Flow	0.0030 cm/cm	0.0030 in/in	ISO 294-4 2577
Linear Mold Shrinkage, Transverse	0.011 cm/cm	0.011 in/in	ISO 294-4 2577

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	140 MPa	20300 psi	ISO 527-1/-2
Tensile Stress	18.7 MPa	2710 psi	ISO 11403-1 -2
	@Strain 0.270 %, Temperature 90.0 °C	@Strain 0.270 %, Temperature 194 °F	
	20.51 MPa	2975 psi	ISO 11403-1 -2
	@Strain 0.150 %, Temperature 23.0 °C	@Strain 0.150 %, Temperature 73.4 °F	
	21.01 MPa	3047 psi	ISO 11403-1 -2
	@Strain 0.210 %, Temperature 40.0 °C	@Strain 0.210 %, Temperature 104 °F	
	43.69 MPa	6337 psi	ISO 11403-1 -2
	@Strain 0.800 %, Temperature 90.0 °C	@Strain 0.800 %, Temperature 194 °F	
	59.23 MPa	8591 psi	ISO 11403-1 -2

Mechanical Properties	Metric @Strain 1.42 %, Temperature 90.0 °C	English @Strain 1.42 %, Temperature 194 °F	Comments
	65.6 MPa	9510 psi	
	@Strain 0.750 %, Temperature 40.0 °C	@Strain 0.750 %, Temperature 104 °F	ISO 11403-1 -2
	67.39 MPa	9774 psi	
	@Strain 2.03 %, Temperature 90.0 °C	@Strain 2.03 %, Temperature 194 °F	ISO 11403-1 -2
	71.91 MPa	10430 psi	
	@Strain 0.580 %, Temperature 23.0 °C	@Strain 0.580 %, Temperature 73.4 °F	ISO 11403-1 -2
	91.43 MPa	13260 psi	
	@Strain 1.30 %, Temperature 40.0 °C	@Strain 1.30 %, Temperature 104 °F	ISO 11403-1 -2
	108.1 MPa	15680 psi	
	@Strain 1.00 %, Temperature 23.0 °C	@Strain 1.00 %, Temperature 73.4 °F	ISO 11403-1 -2
	129.8 MPa	18830 psi	
	@Strain 1.43 %, Temperature 23.0 °C	@Strain 1.43 %, Temperature 73.4 °F	ISO 11403-1 -2
Elongation at Break	2.0 %	2.0 %	ISO 527-1/-2
Tensile Modulus	14.2 GPa	2060 ksi	ISO 527-1/-2
Flexural Strength	210 MPa	30500 psi	ISO 178
Flexural Modulus	13.3 GPa	1930 ksi	ISO 178
Shear Modulus	0.6417 GPa	93.07 ksi	Dynamic; ISO 11403-1 -2
	@Temperature 160 °C	@Temperature 320 °F	
	0.812 GPa	118 ksi	Dynamic; ISO 11403-1 -2
	@Temperature 120 °C	@Temperature 248 °F	
	1.167 GPa	169.2 ksi	Dynamic; ISO 11403-1 -2
	@Temperature 70.0 °C	@Temperature 158 °F	
	2.263 GPa	328.3 ksi	Dynamic; ISO 11403-1 -2
	@Temperature 20.0 °C	@Temperature 68.0 °F	
	2.438 GPa	353.7 ksi	Dynamic; ISO 11403-1 -2
	@Temperature -20.0 °C	@Temperature -4.00 °F	

Mechanical Properties	2.578 GPa Metric	374.0 ksi English	Dynamic ISO 11403-1 -2 Comments
Secant Modulus	@Temperature -50.0 °C 6.275 GPa	@Temperature -58.0 °F 910.1 ksi	
	@Strain 1.60 %, Temperature 40.0 °C	@Strain 1.60 %, Temperature 104 °F	ISO 11403-1 -2
	8.75 GPa	1270 ksi	
	@Strain 0.750 %, Temperature 40.0 °C	@Strain 0.750 %, Temperature 104 °F	ISO 11403-1 -2
	10.0 GPa	1450 ksi	
	@Strain 0.210 %, Temperature 40.0 °C	@Strain 0.210 %, Temperature 104 °F	ISO 11403-1 -2
	10.193 GPa	1478.4 ksi	
	@Strain 1.14 %, Temperature 23.0 °C	@Strain 1.14 %, Temperature 73.4 °F	ISO 11403-1 -2
	12.4 GPa	1800 ksi	
	@Strain 0.580 %, Temperature 23.0 °C	@Strain 0.580 %, Temperature 73.4 °F	ISO 11403-1 -2
	13.7 GPa	1980 ksi	
	@Strain 0.150 %, Temperature 23.0 °C	@Strain 0.150 %, Temperature 73.4 °F	ISO 11403-1 -2
Izod Impact, Notched (ISO)	10.0 kJ/m ²	4.76 ft-lb/in ²	ISO 180/1A
	10.0 kJ/m ²	4.76 ft-lb/in ²	ISO 180/1A
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact Unnotched	5.50 J/cm ²	26.2 ft-lb/in ²	ISO 179/1eU
	6.50 J/cm ²	30.9 ft-lb/in ²	ISO 179/1eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	1.00 J/cm ²	4.76 ft-lb/in ²	ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	20.0 µm/m-°C	11.1 µin/in-°F	ISO 11359-1/-2
CTE, linear, Transverse to Flow	80.0 µm/m-°C	44.4 µin/in-°F	ISO 11359-1/-2
Melting Point	225 °C	437 °F	10°C/min; ISO 11357-1/-3
Deflection Temperature at 0.46 MPa (66 psi)	222 °C	432 °F	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	207 °C	405 °F	ISO 75-1/-2

Thermal Properties	Metric	English	Comments
Flammability, UL94	HB	HB	IEC 60695-11-10
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	HB	HB	IEC 60695-11-10
	@Thickness 0.800 mm	@Thickness 0.0315 in	
Oxygen Index	20 %	20 %	ISO 4589-1/-2

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+15 ohm-cm	>= 1.00e+15 ohm-cm	IEC 60093
Dielectric Constant	3.9	3.9	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	4.1	4.1	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Dielectric Strength	32.0 kV/mm	813 kV/in	IEC 60243-1
Dissipation Factor	0.0038	0.0038	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
	0.013	0.013	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Comparative Tracking Index	475 V	475 V	IEC 60112

Descriptive Properties	Value	Comments
Additives	Release agent	
Delivery Form	Pellets	
Part Marking Code	>PBT-GF45<	ISO 11469
Processing	Injection Moulding	
	Other Extrusion	
	Profile Extrusion	
Regional Availability	Asia Pacific	
	Europe	

Descriptive Properties	Global Value	Comments
	Near East/Africa	
	North America	
	South and Central America	
Resin Identification	PBT-GF45	
UL recognition	UL	

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