

## DuPont Performance Polymers Crastin® SK608 BK509 PBT (Unverified Data\*\*)

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

### Material Notes:

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-PBT-nbspUnverified-Data.php](http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Crastin-SK608-BK509-PBT-nbspUnverified-Data.php)

Physical Properties	Metric	English	Comments
Density	1.66 g/cc	0.0600 lb/in <sup>3</sup>	ISO 1183
Filler Content	45 %	45 %	
Water Absorption	0.10 %	0.10 %	Equilibrium 50%RH; ISO 62, Similar to
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	0.30 %	0.30 %	Saturation, immersed; ISO 62, Similar to
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Linear Mold Shrinkage, Flow	0.0040 cm/cm	0.0040 in/in	Annealed; ISO 294-4
	0.0030 cm/cm	0.0030 in/in	
	@Thickness 2.00 mm	@Thickness 0.0787 in	ISO 294-4
Linear Mold Shrinkage, Transverse	0.0145 cm/cm	0.0145 in/in	Annealed; ISO 294-4
	0.013 cm/cm	0.013 in/in	
	@Thickness 2.00 mm	@Thickness 0.0787 in	ISO 294-4
Melt Index of Compound	5.0 g/10 min	5.0 g/10 min	cm <sup>3</sup> /10 min; ISO 1133
	@Load 5.00 kg, Temperature 250 °C	@Load 11.0 lb, Temperature 482 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	140 MPa	20300 psi	ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Tensile Stress	12.68 MPa	1839 psi	ISO 527
	@Strain 0.220 %, Temperature 120 °C	@Strain 0.220 %, Temperature 248 °F	
	16.6 MPa	2410 psi	ISO 527
	@Strain 0.210 %, Temperature 60.0 °C	@Strain 0.210 %, Temperature 140 °F	

Mechanical Properties	Metric	English	Comments
	@Strain 0.270 %, Temperature 90.0 °C	@Strain 0.270 %, Temperature 194 °F	ISO 527
	<b>20.51 MPa</b>	<b>2975 psi</b>	
	@Strain 0.150 %, Temperature 23.0 °C	@Strain 0.150 %, Temperature 73.4 °F	ISO 527
	<b>21.01 MPa</b>	<b>3047 psi</b>	
	@Strain 0.210 %, Temperature 40.0 °C	@Strain 0.210 %, Temperature 104 °F	ISO 527
	<b>24.92 MPa</b>	<b>3614 psi</b>	
	@Strain 0.460 %, Temperature 120 °C	@Strain 0.460 %, Temperature 248 °F	ISO 527
	<b>27.39 MPa</b>	<b>3973 psi</b>	
	@Strain 0.420 %, Temperature 90.0 °C	@Strain 0.420 %, Temperature 194 °F	ISO 527
	<b>32.48 MPa</b>	<b>4711 psi</b>	
	@Strain 0.430 %, Temperature 60.0 °C	@Strain 0.430 %, Temperature 140 °F	ISO 527
	<b>32.8 MPa</b>	<b>4760 psi</b>	
	@Strain 0.670 %, Temperature 120 °C	@Strain 0.670 %, Temperature 248 °F	ISO 527
	<b>32.99 MPa</b>	<b>4785 psi</b>	
	@Strain 0.340 %, Temperature 40.0 °C	@Strain 0.340 %, Temperature 104 °F	ISO 527
	<b>37.95 MPa</b>	<b>5504 psi</b>	
	@Strain 0.650 %, Temperature 90.0 °C	@Strain 0.650 %, Temperature 194 °F	ISO 527
	<b>39.43 MPa</b>	<b>5719 psi</b>	
	@Strain 0.910 %, Temperature 120 °C	@Strain 0.910 %, Temperature 248 °F	ISO 527
	<b>41.48 MPa</b>	<b>6016 psi</b>	
	@Strain 0.310 %, Temperature 23.0 °C	@Strain 0.310 %, Temperature 73.4 °F	ISO 527
	<b>43.65 MPa</b>	<b>6331 psi</b>	
	@Strain 0.620 %, Temperature 60.0 °C	@Strain 0.620 %, Temperature 140 °F	ISO 527
	<b>43.69 MPa</b>	<b>6337 psi</b>	
	@Strain 0.800 %,	@Strain 0.800 %,	ISO 527

Mechanical Properties	Temperature 90.0 °C Metric	Temperature 194 °F English	Comments
	43.98 MPa	6379 psi	
	@Strain 1.11 %, Temperature 120 °C	@Strain 1.11 %, Temperature 248 °F	ISO 527
	45.53 MPa	6604 psi	
	@Strain 0.480 %, Temperature 40.0 °C	@Strain 0.480 %, Temperature 104 °F	ISO 527
	48.16 MPa	6985 psi	
	@Strain 1.35 %, Temperature 120 °C	@Strain 1.35 %, Temperature 248 °F	ISO 527
	50.75 MPa	7361 psi	
	@Strain 1.03 %, Temperature 90.0 °C	@Strain 1.03 %, Temperature 194 °F	ISO 527
	51.12 MPa	7414 psi	
	@Strain 1.56 %, Temperature 120 °C	@Strain 1.56 %, Temperature 248 °F	ISO 527
	52.9 MPa	7670 psi	
	@Strain 0.810 %, Temperature 60.0 °C	@Strain 0.810 %, Temperature 140 °F	ISO 527
	53.5 MPa	7760 psi	
	@Strain 1.76 %, Temperature 120 °C	@Strain 1.76 %, Temperature 248 °F	ISO 527
	55.63 MPa	8068 psi	
	@Strain 2.00 %, Temperature 120 °C	@Strain 2.00 %, Temperature 248 °F	ISO 527
	56.21 MPa	8153 psi	
	@Strain 1.26 %, Temperature 90.0 °C	@Strain 1.26 %, Temperature 194 °F	ISO 527
	56.33 MPa	8170 psi	
	@Strain 0.620 %, Temperature 40.0 °C	@Strain 0.620 %, Temperature 104 °F	ISO 527
	57.0 MPa	8270 psi	
	@Strain 2.21 %, Temperature 120 °C	@Strain 2.21 %, Temperature 248 °F	ISO 527
	57.4 MPa	8330 psi	
	@Strain 0.440 %, Temperature 23.0 °C	@Strain 0.440 %, Temperature 73.4 °F	ISO 527
	59.23 MPa	8591 psi	

Mechanical Properties	Metric	English	ISO 527 Comments
	@Strain 1.42 %, Temperature 90.0 °C	@Strain 1.42 %, Temperature 194 °F	
	<b>61.94 MPa</b>	<b>8984 psi</b>	
	@Strain 1.03 %, Temperature 60.0 °C	@Strain 1.03 %, Temperature 140 °F	ISO 527
	<b>62.93 MPa</b>	<b>9127 psi</b>	
	@Strain 1.65 %, Temperature 90.0 °C	@Strain 1.65 %, Temperature 194 °F	ISO 527
	<b>65.6 MPa</b>	<b>9510 psi</b>	
	@Strain 0.750 %, Temperature 40.0 °C	@Strain 0.750 %, Temperature 104 °F	ISO 527
	<b>65.85 MPa</b>	<b>9551 psi</b>	
	@Strain 1.88 %, Temperature 90.0 °C	@Strain 1.88 %, Temperature 194 °F	ISO 527
	<b>67.39 MPa</b>	<b>9774 psi</b>	
	@Strain 2.03 %, Temperature 90.0 °C	@Strain 2.03 %, Temperature 194 °F	ISO 527
	<b>68.28 MPa</b>	<b>9903 psi</b>	
	@Strain 1.22 %, Temperature 60.0 °C	@Strain 1.22 %, Temperature 140 °F	ISO 527
	<b>71.91 MPa</b>	<b>10430 psi</b>	
	@Strain 0.580 %, Temperature 23.0 °C	@Strain 0.580 %, Temperature 73.4 °F	ISO 527
	<b>73.54 MPa</b>	<b>10670 psi</b>	
	@Strain 1.41 %, Temperature 60.0 °C	@Strain 1.41 %, Temperature 140 °F	ISO 527
	<b>73.79 MPa</b>	<b>10700 psi</b>	
	@Strain 0.890 %, Temperature 40.0 °C	@Strain 0.890 %, Temperature 104 °F	ISO 527
	<b>78.59 MPa</b>	<b>11400 psi</b>	
	@Strain 1.63 %, Temperature 60.0 °C	@Strain 1.63 %, Temperature 140 °F	ISO 527
	<b>80.4 MPa</b>	<b>11700 psi</b>	
	@Strain 1.03 %, Temperature 40.0 °C	@Strain 1.03 %, Temperature 104 °F	ISO 527
	<b>82.14 MPa</b>	<b>11910 psi</b>	
	@Strain 1.82 %, Temperature 60.0 °C	@Strain 1.82 %, Temperature 140 °F	ISO 527

Mechanical Properties	Metric Pa	English psi	Comments
	@Strain 0.710 %, Temperature 23.0 °C	@Strain 0.710 %, Temperature 73.4 °F	ISO 527
	<b>85.03 MPa</b>	<b>12330 psi</b>	
	@Strain 2.01 %, Temperature 60.0 °C	@Strain 2.01 %, Temperature 140 °F	ISO 527
	<b>86.07 MPa</b>	<b>12480 psi</b>	
	@Strain 1.17 %, Temperature 40.0 °C	@Strain 1.17 %, Temperature 104 °F	ISO 527
	<b>91.43 MPa</b>	<b>13260 psi</b>	
	@Strain 1.30 %, Temperature 40.0 °C	@Strain 1.30 %, Temperature 104 °F	ISO 527
	<b>98.64 MPa</b>	<b>14310 psi</b>	
	@Strain 0.870 %, Temperature 23.0 °C	@Strain 0.870 %, Temperature 73.4 °F	ISO 527
	<b>100.4 MPa</b>	<b>14560 psi</b>	
	@Strain 1.60 %, Temperature 40.0 °C	@Strain 1.60 %, Temperature 104 °F	ISO 527
	<b>108.1 MPa</b>	<b>15680 psi</b>	
	@Strain 1.00 %, Temperature 23.0 °C	@Strain 1.00 %, Temperature 73.4 °F	ISO 527
	<b>116.2 MPa</b>	<b>16850 psi</b>	
	@Strain 1.14 %, Temperature 23.0 °C	@Strain 1.14 %, Temperature 73.4 °F	ISO 527
	<b>123 MPa</b>	<b>17800 psi</b>	
	@Strain 1.27 %, Temperature 23.0 °C	@Strain 1.27 %, Temperature 73.4 °F	ISO 527
	<b>129.8 MPa</b>	<b>18830 psi</b>	
	@Strain 1.43 %, Temperature 23.0 °C	@Strain 1.43 %, Temperature 73.4 °F	ISO 527
<b>Elongation at Break</b>	<b>2.0 %</b>	<b>2.0 %</b>	
	@Temperature 23.0 °C	@Temperature 73.4 °F	ISO 527
<b>Tensile Modulus</b>	<b>14.2 GPa</b>	<b>2060 ksi</b>	
	@Temperature 23.0 °C	@Temperature 73.4 °F	ISO 527
<b>Flexural Strength</b>	<b>210 MPa</b>	<b>30500 psi</b>	
	@Temperature 23.0 °C	@Temperature 73.4 °F	ISO 178

Mechanical Properties	13.3 GPa Metric	1930 ksi English	Comments
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Izod Impact, Notched (ISO)	10.0 kJ/m <sup>2</sup>	4.76 ft-lb/in <sup>2</sup>	ISO 180/1A
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	10.0 kJ/m <sup>2</sup>	4.76 ft-lb/in <sup>2</sup>	ISO 180/1A
	@Temperature 23.0 °C	@Temperature 73.4 °F	

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China