

DuPont Performance Polymers Crastin® SK609 NC010 PBT (Unverified Data**)

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

Material Notes:

Crastin® SK609 NC010 is a 50% glass fiber reinforced, lubricated 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-SK609-NC010-PBT-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Density	1.72 g/cc	0.0621 lb/in ³	ISO 1183
Filler Content	50 %	50 %	
Water Absorption	0.10 %	0.10 %	Equilibrium 50%RH; ISO 62, Similar to
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	0.20 %	0.20 %	Saturation, immersed; ISO 62, Similar to
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Viscosity	62000 cP	62000 cP	ISO 11443
	@Shear Rate 10000 1/s, Temperature 270 °C	@Shear Rate 10000 1/s, Temperature 518 °F	
	74000 cP	74000 cP	ISO 11443
	@Shear Rate 10000 1/s, Temperature 260 °C	@Shear Rate 10000 1/s, Temperature 500 °F	
	89000 cP	89000 cP	ISO 11443
	@Shear Rate 5000 1/s, Temperature 270 °C	@Shear Rate 5000 1/s, Temperature 518 °F	
	90000 cP	90000 cP	ISO 11443
	@Shear Rate 10000 1/s, Temperature 250 °C	@Shear Rate 10000 1/s, Temperature 482 °F	
	106000 cP	106000 cP	ISO 11443
@Shear Rate 5000 1/s, Temperature 260 °C	@Shear Rate 5000 1/s, Temperature 500 °F		
128000 cP	128000 cP	ISO 11443	
@Shear Rate 5000 1/s, Temperature 250 °C	@Shear Rate 5000 1/s, Temperature 482 °F		
139000 cP	139000 cP		

Physical Properties	Metric	English	ISO 11443 Comments
	@Shear Rate 2000 1/s, Temperature 270 °C	@Shear Rate 2000 1/s, Temperature 518 °F	
	167000 cP	167000 cP	ISO 11443
	@Shear Rate 2000 1/s, Temperature 260 °C	@Shear Rate 2000 1/s, Temperature 500 °F	
	194000 cP	194000 cP	ISO 11443
	@Shear Rate 1000 1/s, Temperature 270 °C	@Shear Rate 1000 1/s, Temperature 518 °F	
	203000 cP	203000 cP	ISO 11443
	@Shear Rate 2000 1/s, Temperature 250 °C	@Shear Rate 2000 1/s, Temperature 482 °F	
	234000 cP	234000 cP	ISO 11443
	@Shear Rate 1000 1/s, Temperature 260 °C	@Shear Rate 1000 1/s, Temperature 500 °F	
	263000 cP	263000 cP	ISO 11443
	@Shear Rate 500 1/s, Temperature 270 °C	@Shear Rate 500 1/s, Temperature 518 °F	
	286000 cP	286000 cP	ISO 11443
	@Shear Rate 1000 1/s, Temperature 250 °C	@Shear Rate 1000 1/s, Temperature 482 °F	
	322000 cP	322000 cP	ISO 11443
	@Shear Rate 500 1/s, Temperature 260 °C	@Shear Rate 500 1/s, Temperature 500 °F	
	397000 cP	397000 cP	ISO 11443
	@Shear Rate 500 1/s, Temperature 250 °C	@Shear Rate 500 1/s, Temperature 482 °F	
	454000 cP	454000 cP	ISO 11443
	@Shear Rate 100 1/s, Temperature 270 °C	@Shear Rate 100 1/s, Temperature 518 °F	
	588000 cP	588000 cP	ISO 11443
	@Shear Rate 100 1/s, Temperature 260 °C	@Shear Rate 100 1/s, Temperature 500 °F	
	766000 cP	766000 cP	ISO 11443
	@Shear Rate 100 1/s, Temperature 250 °C	@Shear Rate 100 1/s, Temperature 482 °F	
Linear Mold Shrinkage, Flow	0.0035 cm/cm	0.0035 in/in	Annealed; ISO 294-4
	0.0030 cm/cm	0.0030 in/in	ISO 294-4

Physical Properties	@Thickness 2.00 mm Metric	@Thickness 0.0787 in English	Comments
Linear Mold Shrinkage, Transverse	0.0125 cm/cm	0.0125 in/in	Annealed; ISO 294-4
	0.011 cm/cm	0.011 in/in	ISO 294-4
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Melt Index of Compound	2.0 g/10 min	2.0 g/10 min	cm ³ /10 min; ISO 1133
	@Load 2.16 kg, Temperature 250 °C	@Load 4.76 lb, Temperature 482 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	155 MPa	22500 psi	ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Tensile Stress	16.76 MPa	2431 psi	ISO 527
	@Strain 0.250 %, Temperature 120 °C	@Strain 0.250 %, Temperature 248 °F	
	20.25 MPa	2937 psi	ISO 527
	@Strain 0.280 %, Temperature 90.0 °C	@Strain 0.280 %, Temperature 194 °F	
	25.03 MPa	3630 psi	ISO 527
	@Strain 0.230 %, Temperature 40.0 °C	@Strain 0.230 %, Temperature 104 °F	
	26.64 MPa	3864 psi	ISO 527
	@Strain 0.310 %, Temperature 60.0 °C	@Strain 0.310 %, Temperature 140 °F	
	27.33 MPa	3964 psi	ISO 527
	@Strain 0.170 %, Temperature 23.0 °C	@Strain 0.170 %, Temperature 73.4 °F	
	31.28 MPa	4537 psi	ISO 527
	@Strain 0.520 %, Temperature 120 °C	@Strain 0.520 %, Temperature 248 °F	
	35.59 MPa	5162 psi	ISO 527
	@Strain 0.530 %, Temperature 90.0 °C	@Strain 0.530 %, Temperature 194 °F	
	40.09 MPa	5815 psi	ISO 527
	@Strain 0.750 %, Temperature 120 °C	@Strain 0.750 %, Temperature 248 °F	
	44.06 MPa	6390 psi	ISO 527

Mechanical Properties	Metric @Strain 0.520 %, Temperature 60.0 °C	English @Strain 0.520 %, Temperature 140 °F	Comments
	45.46 MPa	6593 psi	ISO 527
	@Strain 0.760 %, Temperature 90.0 °C	@Strain 0.760 %, Temperature 194 °F	
	47.85 MPa	6940 psi	ISO 527
	@Strain 1.02 %, Temperature 120 °C	@Strain 1.02 %, Temperature 248 °F	
	50.61 MPa	7340 psi	ISO 527
	@Strain 0.330 %, Temperature 23.0 °C	@Strain 0.330 %, Temperature 73.4 °F	
	53.07 MPa	7697 psi	ISO 527
	@Strain 1.26 %, Temperature 120 °C	@Strain 1.26 %, Temperature 248 °F	
	54.75 MPa	7941 psi	ISO 527
	@Strain 1.01 %, Temperature 90.0 °C	@Strain 1.01 %, Temperature 194 °F	
	55.68 MPa	8076 psi	ISO 527
	@Strain 0.730 %, Temperature 60.0 °C	@Strain 0.730 %, Temperature 140 °F	
	57.71 MPa	8370 psi	ISO 527
	@Strain 1.53 %, Temperature 120 °C	@Strain 1.53 %, Temperature 248 °F	
	58.41 MPa	8472 psi	ISO 527
	@Strain 0.540 %, Temperature 40.0 °C	@Strain 0.540 %, Temperature 104 °F	
	60.86 MPa	8827 psi	ISO 527
	@Strain 1.76 %, Temperature 120 °C	@Strain 1.76 %, Temperature 248 °F	
	61.82 MPa	8966 psi	ISO 527
	@Strain 1.27 %, Temperature 90.0 °C	@Strain 1.27 %, Temperature 194 °F	
	63.79 MPa	9252 psi	ISO 527
	@Strain 2.03 %, Temperature 120 °C	@Strain 2.03 %, Temperature 248 °F	
	65.14 MPa	9448 psi	ISO 527
	@Strain 0.940 %, Temperature 60.0 °C	@Strain 0.940 %, Temperature 140 °F	

Mechanical Properties	65.85 MPa Metric	9551 psi English	Comments ISO 527
	@Strain 2.26 %, Temperature 120 °C	@Strain 2.26 %, Temperature 248 °F	
	66.49 MPa	9644 psi	ISO 527
	@Strain 0.460 %, Temperature 23.0 °C	@Strain 0.460 %, Temperature 73.4 °F	
	67.29 MPa	9760 psi	ISO 527
	@Strain 1.53 %, Temperature 90.0 °C	@Strain 1.53 %, Temperature 194 °F	
	68.16 MPa	9886 psi	ISO 527
	@Strain 2.53 %, Temperature 120 °C	@Strain 2.53 %, Temperature 248 °F	
	68.89 MPa	9992 psi	ISO 527
	@Strain 0.690 %, Temperature 40.0 °C	@Strain 0.690 %, Temperature 104 °F	
	70.86 MPa	10280 psi	ISO 527
	@Strain 1.75 %, Temperature 90.0 °C	@Strain 1.75 %, Temperature 194 °F	
	73.05 MPa	10600 psi	ISO 527
	@Strain 1.15 %, Temperature 60.0 °C	@Strain 1.15 %, Temperature 140 °F	
	74.29 MPa	10770 psi	ISO 527
	@Strain 2.01 %, Temperature 90.0 °C	@Strain 2.01 %, Temperature 194 °F	
	76.88 MPa	11150 psi	ISO 527
	@Strain 2.27 %, Temperature 90.0 °C	@Strain 2.27 %, Temperature 194 °F	
	78.06 MPa	11320 psi	ISO 527
	@Strain 0.850 %, Temperature 40.0 °C	@Strain 0.850 %, Temperature 104 °F	
	78.61 MPa	11400 psi	ISO 527
	@Strain 2.53 %, Temperature 90.0 °C	@Strain 2.53 %, Temperature 194 °F	
	79.57 MPa	11540 psi	ISO 527
	@Strain 1.35 %, Temperature 60.0 °C	@Strain 1.35 %, Temperature 140 °F	
	84.54 MPa	12260 psi	ISO 527
	@Strain 0.620 %, Temperature 40.0 °C	@Strain 0.620 %, Temperature 104 °F	

Mechanical Properties	Temperature 23.0 °C	Temperature 73.4 °F	Comments
	Metric	English	
	84.94 MPa	12320 psi	
	@Strain 1.56 %, Temperature 60.0 °C	@Strain 1.56 %, Temperature 140 °F	ISO 527
	86.98 MPa	12620 psi	
	@Strain 1.00 %, Temperature 40.0 °C	@Strain 1.00 %, Temperature 104 °F	ISO 527
	89.59 MPa	12990 psi	
	@Strain 1.77 %, Temperature 60.0 °C	@Strain 1.77 %, Temperature 140 °F	ISO 527

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