

DuPont Performance Polymers Crastin® SK601 NC010 Polybutylene Terephthalate (PBT) (Unverified Data**)

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , Polybutylene Terephthalate (PBT), 10% Glass Fiber Filled

Material Notes:

10% Glass Reinforced Polybutylene Terephthalate Crastin SK601 NC010 is a 10% 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-SK601-NC010-Polybutylene-Terephthalate-PBT-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Density	1.19 g/cc	0.0430 lb/in ³	
	1.37 g/cc	0.0495 lb/in ³	ISO 1183
Water Absorption	0.40 %	0.40 %	Sim. to ISO 62
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Moisture Absorption	0.200 %	0.200 %	Sim. to ISO 62
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Viscosity	78230 cP	78230 cP	ISO 11403-1 -2
	@Shear Rate 5000 1/s, Temperature 260 °C	@Shear Rate 5000 1/s, Temperature 500 °F	
	89660 cP	89660 cP	ISO 11403-1 -2
	@Shear Rate 5000 1/s, Temperature 250 °C	@Shear Rate 5000 1/s, Temperature 482 °F	
	103700 cP	103700 cP	ISO 11403-1 -2
	@Shear Rate 5000 1/s, Temperature 240 °C	@Shear Rate 5000 1/s, Temperature 464 °F	
Viscosity	224100 cP	224100 cP	ISO 11403-1 -2
	@Shear Rate 500 1/s, Temperature 260 °C	@Shear Rate 500 1/s, Temperature 500 °F	
	268600 cP	268600 cP	ISO 11403-1 -2
@Shear Rate 500 1/s, Temperature 250 °C	@Shear Rate 500 1/s, Temperature 482 °F		
Viscosity	323100 cP	323100 cP	ISO 11403-1 -2
	@Shear Rate 500 1/s, Temperature 240 °C	@Shear Rate 500 1/s, Temperature 464 °F	
Viscosity Test	110 cm ³ /g	110 cm ³ /g	ISO 307 1157 1628

Physical Properties	Metric	English	Comments
Linear Mold Shrinkage, Transverse	0.012 cm/cm	0.012 in/in	ISO 294-4 2577

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	90.0 MPa	13100 psi	ISO 527-1/-2
Tensile Stress	3.06 MPa	444 psi	ISO 11403-1 -2
	@Strain 0.250 %, Temperature 160 °C	@Strain 0.250 %, Temperature 320 °F	
	8.55 MPa	1240 psi	ISO 11403-1 -2
	@Strain 0.250 %, Temperature 40.0 °C	@Strain 0.250 %, Temperature 104 °F	
	11.1 MPa	1610 psi	ISO 11403-1 -2
	@Strain 0.250 %, Temperature 23.0 °C	@Strain 0.250 %, Temperature 73.4 °F	
	12.1 MPa	1750 psi	ISO 11403-1 -2
	@Strain 0.250 %, Temperature 0.000 °C	@Strain 0.250 %, Temperature 32.0 °F	
	13.2 MPa	1910 psi	ISO 11403-1 -2
	@Strain 0.250 %, Temperature -20.0 °C	@Strain 0.250 %, Temperature -4.00 °F	
	13.7 MPa	1990 psi	ISO 11403-1 -2
	@Strain 0.250 %, Temperature -40.0 °C	@Strain 0.250 %, Temperature -40.0 °F	
	14.5 MPa	2100 psi	ISO 11403-1 -2
	@Strain 1.50 %, Temperature 160 °C	@Strain 1.50 %, Temperature 320 °F	
	21.6 MPa	3130 psi	ISO 11403-1 -2
	@Strain 3.00 %, Temperature 160 °C	@Strain 3.00 %, Temperature 320 °F	
	45.5 MPa	6600 psi	ISO 11403-1 -2
	@Strain 1.50 %, Temperature 40.0 °C	@Strain 1.50 %, Temperature 104 °F	
	59.5 MPa	8630 psi	ISO 11403-1 -2
	@Strain 1.50 %, Temperature 23.0 °C	@Strain 1.50 %, Temperature 73.4 °F	
	67.0 MPa	9720 psi	ISO 11403-1 -2
	@Strain 3.00 %,	@Strain 3.00 %,	

Mechanical Properties	Temperature 40.0 °C Metric	Temperature 104 °F English	Comments
	69.2 MPa @Strain 1.50 %, Temperature 0.000 °C	10000 psi @Strain 1.50 %, Temperature 32.0 °F	ISO 11403-1 -2
	72.9 MPa @Strain 1.50 %, Temperature -20.0 °C	10600 psi @Strain 1.50 %, Temperature -4.00 °F	ISO 11403-1 -2
	75.0 MPa @Strain 1.50 %, Temperature -40.0 °C	10900 psi @Strain 1.50 %, Temperature -40.0 °F	ISO 11403-1 -2
	90.2 MPa @Strain 3.00 %, Temperature 23.0 °C	13100 psi @Strain 3.00 %, Temperature 73.4 °F	ISO 11403-1 -2
	10.0 MPa @Strain 0.270 %, Time 36000 sec	1450 psi @Strain 0.270 %, Time 10.0 hour	isochronous; ISO 11403-1 -2
	10.0 MPa @Strain 0.249 %, Time 3600 sec	1450 psi @Strain 0.249 %, Time 1.00 hour	isochronous; ISO 11403-1 -2
	10.0 MPa @Strain 0.398 %, Time 3.60e+6 sec	1450 psi @Strain 0.398 %, Time 1000 hour	isochronous; ISO 11403-1 -2
	25.0 MPa @Strain 0.730 %, Time 360000 sec	3630 psi @Strain 0.730 %, Time 100 hour	isochronous; ISO 11403-1 -2
	40.0 MPa @Strain 1.75 %, Time 3.60e+6 sec	5800 psi @Strain 1.75 %, Time 1000 hour	isochronous; ISO 11403-1 -2
	40.0 MPa @Strain 1.17 %, Time 36000 sec	5800 psi @Strain 1.17 %, Time 10.0 hour	isochronous; ISO 11403-1 -2
	50.0 MPa @Time 3600 sec, Strain 1.40 %	7250 psi @Time 1.00 hour, Strain 1.40 %	isochronous; ISO 11403-1 -2
	60.0 MPa @Strain 2.75 %, Time 360000 sec	8700 psi @Strain 2.75 %, Time 100 hour	isochronous; ISO 11403-1 -2
Elongation at Break	4.7 %	4.7 %	ISO 527-1/-2

Mechanical Properties Tensile Modulus	Metric GPa	English ksi	Comments ISO 527-1/-2
Flexural Strength	140 MPa	20300 psi	ISO 178
Shear Modulus	0.288 GPa	41.8 ksi	Dynamic; ISO 11403-1 -2
	@Temperature 160 °C	@Temperature 320 °F	
	0.340 GPa	49.3 ksi	Dynamic; ISO 11403-1 -2
	@Temperature 120 °C	@Temperature 248 °F	
	0.513 GPa	74.4 ksi	Dynamic; ISO 11403-1 -2
	@Temperature 70.0 °C	@Temperature 158 °F	
	1.24 GPa	180 ksi	Dynamic; ISO 11403-1 -2
@Temperature 20.0 °C	@Temperature 68.0 °F		
Secant Modulus	1.35 GPa	196 ksi	Dynamic; ISO 11403-1 -2
	@Temperature -20.0 °C	@Temperature -4.00 °F	
	1.49 GPa	216 ksi	Dynamic; ISO 11403-1 -2
	@Temperature -50.0 °C	@Temperature -58.0 °F	
	1.04 GPa	151 ksi	ISO 11403-1 -2
	@Strain 3.50 %, Temperature 100 °C	@Strain 3.50 %, Temperature 212 °F	
	1.25 GPa	181 ksi	ISO 11403-1 -2
@Strain 3.50 %, Temperature 80.0 °C	@Strain 3.50 %, Temperature 176 °F		
Secant Modulus	1.47 GPa	213 ksi	ISO 11403-1 -2
	@Strain 1.50 %, Temperature 100 °C	@Strain 1.50 %, Temperature 212 °F	
	1.57 GPa	227 ksi	ISO 11403-1 -2
	@Strain 1.50 %, Temperature 80.0 °C	@Strain 1.50 %, Temperature 176 °F	
	1.66 GPa	241 ksi	ISO 11403-1 -2
	@Strain 0.250 %, Temperature 100 °C	@Strain 0.250 %, Temperature 212 °F	
	1.80 GPa	261 ksi	ISO 11403-1 -2
@Strain 0.250 %, Temperature 80.0 °C	@Strain 0.250 %, Temperature 176 °F		
Secant Modulus	1.98 GPa	287 ksi	ISO 11403-1 -2
	@Strain 3.50 %,	@Strain 3.50 %,	

Mechanical Properties	Temperature 40.0 °C Metric	Temperature 104 °F English	Comments
	2.46 GPa @Strain 3.70 %, Temperature 23.0 °C	357 ksi @Strain 3.70 %, Temperature 73.4 °F	ISO 11403-1 -2
	3.03 GPa @Strain 1.50 %, Temperature 40.0 °C	440 ksi @Strain 1.50 %, Temperature 104 °F	ISO 11403-1 -2
	3.42 GPa @Strain 0.250 %, Temperature 40.0 °C	496 ksi @Strain 0.250 %, Temperature 104 °F	ISO 11403-1 -2
	3.97 GPa @Strain 1.50 %, Temperature 23.0 °C	575 ksi @Strain 1.50 %, Temperature 73.4 °F	ISO 11403-1 -2
	4.44 GPa @Strain 0.250 %, Temperature 23.0 °C	644 ksi @Strain 0.250 %, Temperature 73.4 °F	ISO 11403-1 -2
	4.61 GPa @Strain 1.50 %, Temperature 0.000 °C	669 ksi @Strain 1.50 %, Temperature 32.0 °F	ISO 11403-1 -2
	4.84 GPa @Strain 0.250 %, Temperature 0.000 °C	702 ksi @Strain 0.250 %, Temperature 32.0 °F	ISO 11403-1 -2
	4.86 GPa @Strain 1.50 %, Temperature -20.0 °C	705 ksi @Strain 1.50 %, Temperature -4.00 °F	ISO 11403-1 -2
	5.00 GPa @Strain 1.50 %, Temperature -40.0 °C	725 ksi @Strain 1.50 %, Temperature -40.0 °F	ISO 11403-1 -2
	5.28 GPa @Strain 0.250 %, Temperature -20.0 °C	766 ksi @Strain 0.250 %, Temperature -4.00 °F	ISO 11403-1 -2
	5.48 GPa @Strain 0.250 %, Temperature -40.0 °C	795 ksi @Strain 0.250 %, Temperature -40.0 °F	ISO 11403-1 -2
Izod Impact, Notched (ISO)	4.50 kJ/m ²	2.14 ft-lb/in ²	ISO 180/1A

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