DuPont Performance Polymers Crastin® SK602 NC010 Polybutylene Terephthalate (PBT) (Unverified Data**)

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , Polybutylene Terephthalate (PBT), 20% Glass Fiber Filled

Material Notes:

15% Glass Reinforced Polybutylene Terephthalate Crastin SK602 NC010 is a 15% 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-SK602-NC010-Polybutylene-Terephthalate-PBT-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Density	1.22 g/cc	0.0441 lb/in³	
	1.41 g/cc	0.0509 lb/in³	ISO 1183
Water Absorption	0.42 % @Thickness 2.00 mm	0.42 % @Thickness 0.0787 in	Sim. to ISO 62
Moisture Absorption	0.170 % @Thickness 2.00 mm	0.170 % @Thickness 0.0787 in	Sim. to ISO 62
Viscosity	77750 cP @Shear Rate 5000 1/s, Temperature 260 °C	77750 cP @Shear Rate 5000 1/s, Temperature 500 °F	ISO 11403-1 -2
	90080 cP @Shear Rate 5000 1/s, Temperature 250 °C	90080 cP @Shear Rate 5000 1/s, Temperature 482 °F	ISO 11403-1 -2
	105400 cP @Shear Rate 5000 1/s, Temperature 240 °C	105400 cP @Shear Rate 5000 1/s, Temperature 464 °F	ISO 11403-1 -2
	224600 cP @Shear Rate 500 1/s, Temperature 260 °C	224600 cP @Shear Rate 500 1/s, Temperature 500 °F	ISO 11403-1 -2
	274400 cP @Shear Rate 500 1/s, Temperature 250 °C	274400 cP @Shear Rate 500 1/s, Temperature 482 °F	ISO 11403-1 -2
	336400 cP @Shear Rate 500 1/s, Temperature 240 °C	336400 cP @Shear Rate 500 1/s, Temperature 464 °F	ISO 11403-1 -2
Viscosity Test	105 cm³/g	105 cm³/g	ISO 307 1157 1628

Physical Properties	Metric	English	Comments
Linear Mold Shrinkage, Flow	0.0040 cm/cm	0.0040 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	109 MPa	15800 psi	ISO 527-1/-2
Tensile Stress	14.41 MPa @Strain 0.560 %, Temperature 90.0 °C	2090 psi @Strain 0.560 %, Temperature 194 °F	ISO 11403-1 -2
	18.07 MPa @Strain 0.320 %, Temperature 23.0 °C	2621 psi @Strain 0.320 %, Temperature 73.4 °F	ISO 11403-1 -2
	18.34 MPa @Strain 0.450 %, Temperature 40.0 °C	2660 psi @Strain 0.450 %, Temperature 104 °F	ISO 11403-1 -2
	41.62 MPa @Strain 2.02 %, Temperature 90.0 °C	6036 psi @Strain 2.02 %, Temperature 194 °F	ISO 11403-1 -2
	52.91 MPa @Strain 1.54 %, Temperature 40.0 °C	7674 psi @Strain 1.54 %, Temperature 104 °F	ISO 11403-1 -2
	54.86 MPa @Strain 3.57 %, Temperature 90.0 °C	7957 psi @Strain 3.57 %, Temperature 194 °F	ISO 11403-1 -2
	57.84 MPa @Strain 5.03 %, Temperature 90.0 °C	8389 psi @Strain 5.03 %, Temperature 194 °F	ISO 11403-1 -2
	67.19 MPa @Strain 1.30 %, Temperature 23.0 °C	9745 psi @Strain 1.30 %, Temperature 73.4 °F	ISO 11403-1 -2
	77.38 MPa @Strain 2.80 %, Temperature 40.0 °C	11220 psi @Strain 2.80 %, Temperature 104 °F	ISO 11403-1 -2
	83.47 MPa @Strain 3.88 %, Temperature 40.0 °C	12110 psi @Strain 3.88 %, Temperature 104 °F	ISO 11403-1 -2
	97.45 MPa @Strain 2.25 %,	14130 psi @Strain 2.25 %,	ISO 11403-1 -2

Mechanical Properties	Temperature 23.0 °C Metric	Temperature 73.4 °F English	Comments
	108.8 MPa @Strain 3.23 %, Temperature 23.0 °C	15780 psi @Strain 3.23 %, Temperature 73.4 °F	ISO 11403-1 -2
	10.0 MPa @Strain 0.230 %, Time 3.60e+6 sec	1450 psi @Strain 0.230 %, Time 1000 hour	isochronous; ISO 11403-1 -2
	10.0 MPa @Strain 0.260 %, Time 3.60e+7 sec	1450 psi @Strain 0.260 %, Time 10000 hour	isochronous; ISO 11403-1 -2
	10.0 MPa @Strain 0.210 %, Time 360000 sec	1450 psi @Strain 0.210 %, Time 100 hour	isochronous; ISO 11403-1 -2
	20.0 MPa @Strain 0.360 %, Time 3600 sec	2900 psi @Strain 0.360 %, Time 1.00 hour	isochronous; ISO 11403-1 -2
	20.0 MPa @Strain 0.390 %, Time 36000 sec	2900 psi @Strain 0.390 %, Time 10.0 hour	isochronous; ISO 11403-1 -2
	50.0 MPa @Strain 1.03 %, Time 36000 sec	7250 psi @Strain 1.03 %, Time 10.0 hour	isochronous; ISO 11403-1 -2
	50.0 MPa @Strain 0.990 %, Time 3600 sec	7250 psi @Strain 0.990 %, Time 1.00 hour	isochronous; ISO 11403-1 -2
	50.0 MPa @Strain 1.62 %, Time 3.60e+7 sec	7250 psi @Strain 1.62 %, Time 10000 hour	isochronous; ISO 11403-1 -2
	50.0 MPa @Strain 1.34 %, Time 3.60e+6 sec	7250 psi @Strain 1.34 %, Time 1000 hour	isochronous; ISO 11403-1 -2
	50.0 MPa @Strain 1.16 %, Time 360000 sec	7250 psi @Strain 1.16 %, Time 100 hour	isochronous; ISO 11403-1 -2
Elongation at Break	3.5 %	3.5 %	ISO 527-1/-2
Tensile Modulus	5.80 GPa	841 ksi	ISO 527-1/-2
Flexural Strength	160 MPa	23200 psi	ISO 178

Mechanical Properties	Metric	English	Comments
Shear Modulus	0.328 GPa @Temperature 160 °C	47.6 ksi @Temperature 320 °F	Dynamic; ISO 11403-1 -2
	0.393 GPa @Temperature 120 °C	57.0 ksi @Temperature 248 °F	Dynamic; ISO 11403-1 -2
	0.568 GPa @Temperature 70.0 °C	82.4 ksi @Temperature 158 °F	Dynamic; ISO 11403-1 -2
	1.42 GPa @Temperature 20.0 °C	206 ksi @Temperature 68.0 °F	Dynamic; ISO 11403-1 -2
	1.56 GPa @Temperature -20.0 °C	226 ksi @Temperature -4.00 °F	Dynamic; ISO 11403-1 -2
	1.62 GPa @Temperature -50.0 °C	235 ksi @Temperature -58.0 °F	Dynamic; ISO 11403-1 -2
Secant Modulus	2.56 GPa @Strain 3.16 %, Temperature 40.0 °C	371 ksi @Strain 3.16 %, Temperature 104 °F	ISO 11403-1 -2
	3.44 GPa @Strain 1.54 %, Temperature 40.0 °C	498 ksi @Strain 1.54 %, Temperature 104 °F	ISO 11403-1 -2
	3.98 GPa @Strain 2.59 %, Temperature 23.0 °C	578 ksi @Strain 2.59 %, Temperature 73.4 °F	ISO 11403-1 -2
	4.08 GPa @Strain 0.450 %, Temperature 40.0 °C	591 ksi @Strain 0.450 %, Temperature 104 °F	ISO 11403-1 -2
	5.17 GPa @Strain 1.30 %, Temperature 23.0 °C	750 ksi @Strain 1.30 %, Temperature 73.4 °F	ISO 11403-1 -2
	5.65 GPa @Strain 0.320 %, Temperature 23.0 °C	819 ksi @Strain 0.320 %, Temperature 73.4 °F	ISO 11403-1 -2
Izod Impact, Notched (ISO)	6.50 kJ/m²	3.09 ft-lb/in²	ISO 180/1A
	6.00 kJ/m² @Temperature -30.0 °C	2.86 ft-lb/in² @Temperature -22.0 °F	ISO 180/1A

Mechanical Properties	Metric	English	Comments
	@Temperature -40.0 °C	@Temperature -40.0 °F	ISO 180/1A
Izod Impact, Unnotched (ISO)	50.0 kJ/m²	23.8 ft-lb/in²	ISO 180/1U
	30.0 kJ/m² @Temperature -40.0 °C	14.3 ft-lb/in² @Temperature -40.0 °F	ISO 180/1U
	50.0 kJ/m² @Temperature -30.0 °C	23.8 ft-lb/in² @Temperature -22.0 °F	ISO 180/1U
Charpy Impact Unnotched	4.50 J/cm²	21.4 ft-lb/in²	ISO 179/1eU
	4.00 J/cm² @Temperature -40.0 °C	19.0 ft-lb/in² @Temperature -40.0 °F	ISO 179/1eU
	4.50 J/cm² @Temperature -30.0 °C	21.4 ft-lb/in² @Temperature -22.0 °F	ISO 179/1eU
Charpy Impact, Notched	0.700 J/cm²	3.33 ft-lb/in²	ISO 179/1eA
	0.700 J/cm² @Temperature -30.0 °C	3.33 ft-lb/in² @Temperature -22.0 °F	ISO 179/1eA
	0.700 J/cm² @Temperature -40.0 °C	3.33 ft-lb/in² @Temperature -40.0 °F	ISO 179/1eA

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