

DuPont Performance Polymers Crastin® SK605 NC010 Polybutylene Terephthalate (PBT) (Unverified Data**)

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , Polybutylene Terephthalate (PBT), 30% Glass Fiber Filled

Material Notes:

30% Glass Reinforced Polybutylene Terephthalate Crastin SK605 NC010 is a 30% 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-SK605-NC010-Polybutylene-Terephthalate-PBT-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Density	1.36 g/cc	0.0491 lb/in ³	
	1.53 g/cc	0.0553 lb/in ³	ISO 1183
Water Absorption	0.35 %	0.35 %	Sim. to ISO 62
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Moisture Absorption	0.150 %	0.150 %	Sim. to ISO 62
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Viscosity	91150 cP	91150 cP	ISO 11403-1 -2
	@Shear Rate 5000 1/s, Temperature 260 °C	@Shear Rate 5000 1/s, Temperature 500 °F	
	107900 cP	107900 cP	ISO 11403-1 -2
	@Shear Rate 5000 1/s, Temperature 250 °C	@Shear Rate 5000 1/s, Temperature 482 °F	
	129480 cP	129480 cP	ISO 11403-1 -2
	@Shear Rate 5000 1/s, Temperature 240 °C	@Shear Rate 5000 1/s, Temperature 464 °F	
	274700 cP	274700 cP	ISO 11403-1 -2
	@Shear Rate 500 1/s, Temperature 260 °C	@Shear Rate 500 1/s, Temperature 500 °F	
	340700 cP	340700 cP	ISO 11403-1 -2
@Shear Rate 500 1/s, Temperature 250 °C	@Shear Rate 500 1/s, Temperature 482 °F		
424600 cP	424600 cP	ISO 11403-1 -2	
@Shear Rate 500 1/s, Temperature 240 °C	@Shear Rate 500 1/s, Temperature 464 °F		
Viscosity Test	100 cm ³ /g	100 cm ³ /g	ISO 307 1157 1628

Physical Properties	Metric	English	Comments
Linear Mold Shrinkage, Transverse	0.011 cm/cm	0.011 in/in	ISO 294-4 2577
Melt Flow	10 g/10 min	10 g/10 min	ISO 1133
	7.0 g/10 min @Load 2.16 kg, Temperature 250 °C	7.0 g/10 min @Load 4.76 lb, Temperature 482 °F	cm ³ /10min; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	140 MPa	20300 psi	ISO 527-1/-2
Tensile Stress	8.08 MPa @Strain 0.250 %, Temperature 160 °C	1170 psi @Strain 0.250 %, Temperature 320 °F	ISO 11403-1 -2
	22.5 MPa @Strain 0.250 %, Temperature 40.0 °C	3260 psi @Strain 0.250 %, Temperature 104 °F	ISO 11403-1 -2
	24.9 MPa @Strain 0.250 %, Temperature 23.0 °C	3610 psi @Strain 0.250 %, Temperature 73.4 °F	ISO 11403-1 -2
	28.9 MPa @Strain 0.250 %, Temperature 0.000 °C	4190 psi @Strain 0.250 %, Temperature 32.0 °F	ISO 11403-1 -2
	30.0 MPa @Strain 0.250 %, Temperature -20.0 °C	4350 psi @Strain 0.250 %, Temperature -4.00 °F	ISO 11403-1 -2
	30.7 MPa @Strain 0.250 %, Temperature -40.0 °C	4450 psi @Strain 0.250 %, Temperature -40.0 °F	ISO 11403-1 -2
	30.7 MPa @Strain 1.50 %, Temperature 160 °C	4450 psi @Strain 1.50 %, Temperature 320 °F	ISO 11403-1 -2
	41.3 MPa @Strain 3.00 %, Temperature 160 °C	5990 psi @Strain 3.00 %, Temperature 320 °F	ISO 11403-1 -2
	91.7 MPa @Strain 1.50 %, Temperature 40.0 °C	13300 psi @Strain 1.50 %, Temperature 104 °F	ISO 11403-1 -2
	114 MPa	16500 psi	

Mechanical Properties	Metric	English	Comments 1 - 2
	@Strain 3.00 %, Temperature 40.0 °C	@Strain 3.00 %, Temperature 104 °F	
	122 MPa	17700 psi	
	@Strain 1.50 %, Temperature 23.0 °C	@Strain 1.50 %, Temperature 73.4 °F	ISO 11403-1 -2
	138 MPa	20000 psi	
	@Strain 1.50 %, Temperature 0.000 °C	@Strain 1.50 %, Temperature 32.0 °F	ISO 11403-1 -2
	149 MPa	21600 psi	
	@Strain 1.50 %, Temperature -20.0 °C	@Strain 1.50 %, Temperature -4.00 °F	ISO 11403-1 -2
	159 MPa	23100 psi	
	@Strain 1.50 %, Temperature -40.0 °C	@Strain 1.50 %, Temperature -40.0 °F	ISO 11403-1 -2
	10.0 MPa	1450 psi	
	@Strain 0.175 %, Time 3.60e+7 sec	@Strain 0.175 %, Time 10000 hour	isochronous; ISO 11403-1 -2
	10.0 MPa	1450 psi	
	@Strain 0.126 %, Time 36000 sec	@Strain 0.126 %, Time 10.0 hour	isochronous; ISO 11403-1 -2
	10.0 MPa	1450 psi	
	@Strain 0.115 %, Time 3600 sec	@Strain 0.115 %, Time 1.00 hour	isochronous; ISO 11403-1 -2
	10.0 MPa	1450 psi	
	@Strain 0.142 %, Time 360000 sec	@Strain 0.142 %, Time 100 hour	isochronous; ISO 11403-1 -2
	10.0 MPa	1450 psi	
	@Strain 0.159 %, Time 3.60e+6 sec	@Strain 0.159 %, Time 1000 hour	isochronous; ISO 11403-1 -2
	40.0 MPa	5800 psi	
	@Strain 0.603 %, Time 360000 sec	@Strain 0.603 %, Time 100 hour	isochronous; ISO 11403-1 -2
	50.0 MPa	7250 psi	
	@Strain 0.889 %, Time 3.60e+6 sec	@Strain 0.889 %, Time 1000 hour	isochronous; ISO 11403-1 -2
	50.0 MPa	7250 psi	
	@Strain 0.682 %, Time 36000 sec	@Strain 0.682 %, Time 10.0 hour	isochronous; ISO 11403-1 -2

Mechanical Properties	Metric Pa	English	Comments
	@Strain 1.02 %, Time 3.60e+7 sec	@Strain 1.02 %, Time 10000 hour	isochronous; ISO 11403-1 -2
	60.0 MPa	8700 psi	
	@Strain 0.768 %, Time 3600 sec	@Strain 0.768 %, Time 1.00 hour	isochronous; ISO 11403-1 -2
	80.0 MPa	11600 psi	
	@Strain 1.53 %, Time 360000 sec	@Strain 1.53 %, Time 100 hour	isochronous; ISO 11403-1 -2
Elongation at Break	2.7 %	2.7 %	ISO 527-1/-2
Tensile Modulus	10.0 GPa	1450 ksi	ISO 527-1/-2
	3.59 GPa	520 ksi	
	@Temperature 150 °C	@Temperature 302 °F	ISO 11403-1 -2
	4.20 GPa	610 ksi	
	@Temperature 90.0 °C	@Temperature 194 °F	Dynamic; ISO 11403-1 -2
	4.78 GPa	693 ksi	
	@Temperature 90.0 °C	@Temperature 194 °F	ISO 11403-1 -2
	7.65 GPa	1110 ksi	
	@Temperature 40.0 °C	@Temperature 104 °F	ISO 11403-1 -2
	10.5 GPa	1520 ksi	
	@Temperature -40.0 °C	@Temperature -40.0 °F	Dynamic; ISO 11403-1 -2
	10.66 GPa	1546 ksi	
	@Temperature -40.0 °C	@Temperature -40.0 °F	ISO 11403-1 -2
Flexural Strength	200 MPa	29000 psi	ISO 178
Flexural Modulus	9.00 GPa	1310 ksi	ISO 178
Shear Modulus	0.550 GPa	79.8 ksi	
	@Temperature 160 °C	@Temperature 320 °F	Dynamic; ISO 11403-1 -2
	0.696 GPa	101 ksi	
	@Temperature 120 °C	@Temperature 248 °F	Dynamic; ISO 11403-1 -2
	1.00 GPa	145 ksi	
	@Temperature 70.0 °C	@Temperature 158 °F	Dynamic; ISO 11403-1 -2
	1.94 GPa	281 ksi	

Mechanical Properties	Metric @ Temperature 20.0 °C	English @ Temperature 68.0 °F	Dynamic; ISO 11403-1 -2 Comments
	2.09 GPa @Temperature -20.0 °C	303 ksi @Temperature -4.00 °F	Dynamic; ISO 11403-1 -2
	2.21 GPa @Temperature -50.0 °C	321 ksi @Temperature -58.0 °F	Dynamic; ISO 11403-1 -2
Secant Modulus	1.82 GPa @Strain 3.50 %, Temperature 100 °C	264 ksi @Strain 3.50 %, Temperature 212 °F	ISO 11403-1 -2
	1.99 GPa @Strain 3.50 %, Temperature 80.0 °C	289 ksi @Strain 3.50 %, Temperature 176 °F	ISO 11403-1 -2
	2.95 GPa @Strain 1.50 %, Temperature 100 °C	428 ksi @Strain 1.50 %, Temperature 212 °F	ISO 11403-1 -2
	3.29 GPa @Strain 3.50 %, Temperature 40.0 °C	477 ksi @Strain 3.50 %, Temperature 104 °F	ISO 11403-1 -2
	3.30 GPa @Strain 1.50 %, Temperature 80.0 °C	479 ksi @Strain 1.50 %, Temperature 176 °F	ISO 11403-1 -2
	4.44 GPa @Strain 0.250 %, Temperature 100 °C	644 ksi @Strain 0.250 %, Temperature 212 °F	ISO 11403-1 -2
	4.84 GPa @Strain 0.250 %, Temperature 80.0 °C	702 ksi @Strain 0.250 %, Temperature 176 °F	ISO 11403-1 -2
	6.11 GPa @Strain 1.50 %, Temperature 40.0 °C	887 ksi @Strain 1.50 %, Temperature 104 °F	ISO 11403-1 -2

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