

DuPont Performance Polymers Crastin® HR5330HF 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 Hydrolysis Resistant Polybutylene Terephthalate Crastin HR5330HF is a 30% glass reinforced PBT with high flow (HF) moderately toughened hydrolysis resistant (HR) resin. Excellent balance of properties between terminal pullout and information provided by DuPont Performance Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Crastin-HR5330HF-NC010-Polybutylene-Terephthalate-PBT-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Density	1.29 g/cc	0.0466 lb/in ³	
	1.50 g/cc	0.0542 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	68560 cP	68560 cP	ISO 11403-1 -2
	@Shear Rate 5000 1/s, Temperature 260 °C	@Shear Rate 5000 1/s, Temperature 500 °F	
	79300 cP	79300 cP	ISO 11403-1 -2
	@Shear Rate 5000 1/s, Temperature 250 °C	@Shear Rate 5000 1/s, Temperature 482 °F	
	92760 cP	92760 cP	ISO 11403-1 -2
	@Shear Rate 5000 1/s, Temperature 240 °C	@Shear Rate 5000 1/s, Temperature 464 °F	
221300 cP	221300 cP	ISO 11403-1 -2	
@Shear Rate 500 1/s, Temperature 260 °C	@Shear Rate 500 1/s, Temperature 500 °F		
260930 cP	260930 cP	ISO 11403-1 -2	
@Shear Rate 500 1/s, Temperature 250 °C	@Shear Rate 500 1/s, Temperature 482 °F		
310000 cP	310000 cP	ISO 11403-1 -2	
@Shear Rate 500 1/s, Temperature 240 °C	@Shear Rate 500 1/s, Temperature 464 °F		

Physical Properties	95 cm ² /g Metric	95 cm ² /g English	ISO 307 1157 1628 Comments
Linear Mold Shrinkage, Flow	0.0030 cm/cm	0.0030 in/in	ISO 294-4 2577
Linear Mold Shrinkage, Transverse	0.010 cm/cm	0.010 in/in	ISO 294-4 2577

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	132 MPa	19100 psi	ISO 527-1/-2
Tensile Stress	11.63 MPa	1687 psi	ISO 11403-1 -2
	@Strain 0.370 %, Temperature 150 °C	@Strain 0.370 %, Temperature 302 °F	
	18.68 MPa	2709 psi	ISO 11403-1 -2
	@Strain 0.400 %, Temperature 90.0 °C	@Strain 0.400 %, Temperature 194 °F	
	24.27 MPa	3520 psi	ISO 11403-1 -2
	@Strain 0.360 %, Temperature 40.0 °C	@Strain 0.360 %, Temperature 104 °F	
	28.72 MPa	4165 psi	ISO 11403-1 -2
	@Strain 1.24 %, Temperature 150 °C	@Strain 1.24 %, Temperature 302 °F	
	35.72 MPa	5181 psi	ISO 11403-1 -2
	@Strain 0.440 %, Temperature 23.0 °C	@Strain 0.440 %, Temperature 73.4 °F	
	38.12 MPa	5529 psi	ISO 11403-1 -2
	@Strain 0.420 %, Temperature 0.000 °C	@Strain 0.420 %, Temperature 32.0 °F	
	38.53 MPa	5588 psi	ISO 11403-1 -2
	@Strain 2.20 %, Temperature 150 °C	@Strain 2.20 %, Temperature 302 °F	
	41.17 MPa	5971 psi	ISO 11403-1 -2
	@Strain 1.10 %, Temperature 90.0 °C	@Strain 1.10 %, Temperature 194 °F	
	44.43 MPa	6444 psi	ISO 11403-1 -2
	@Strain 3.16 %, Temperature 150 °C	@Strain 3.16 %, Temperature 302 °F	
	53.57 MPa	7770 psi	ISO 11403-1 -2
	@Strain 6.46 %, Temperature 150 °C	@Strain 6.46 %, Temperature 302 °F	
	55.58 MPa	8061 psi	

Mechanical Properties	Metric	English	Comments
	@Strain 0.920 %, Temperature 40.0 °C	@Strain 0.920 %, Temperature 104 °F	ISO 11403-1 -2
	55.85 MPa	8100 psi	
	@Strain 1.87 %, Temperature 90.0 °C	@Strain 1.87 %, Temperature 194 °F	ISO 11403-1 -2
	62.8 MPa	9110 psi	
	@Strain 0.660 %, Temperature -20.0 °C	@Strain 0.660 %, Temperature -4.00 °F	ISO 11403-1 -2
	64.86 MPa	9407 psi	
	@Strain 2.72 %, Temperature 90.0 °C	@Strain 2.72 %, Temperature 194 °F	ISO 11403-1 -2
	68.1 MPa	9880 psi	
	@Strain 0.880 %, Temperature 23.0 °C	@Strain 0.880 %, Temperature 73.4 °F	ISO 11403-1 -2
	75.05 MPa	10890 psi	
	@Strain 1.44 %, Temperature 40.0 °C	@Strain 1.44 %, Temperature 104 °F	ISO 11403-1 -2
	84.36 MPa	12240 psi	
	@Strain 0.960 %, Temperature 0.000 °C	@Strain 0.960 %, Temperature 32.0 °F	ISO 11403-1 -2
	88.7 MPa	12900 psi	
	@Strain 1.99 %, Temperature 40.0 °C	@Strain 1.99 %, Temperature 104 °F	ISO 11403-1 -2
	89.21 MPa	12940 psi	
	@Strain 1.26 %, Temperature 23.0 °C	@Strain 1.26 %, Temperature 73.4 °F	ISO 11403-1 -2
	99.12 MPa	14380 psi	
	@Strain 1.01 %, Temperature -40.0 °C	@Strain 1.01 %, Temperature -40.0 °F	ISO 11403-1 -2
	107.95 MPa	15657 psi	
	@Strain 1.72 %, Temperature 23.0 °C	@Strain 1.72 %, Temperature 73.4 °F	ISO 11403-1 -2
	109.81 MPa	15927 psi	
	@Strain 1.33 %, Temperature 0.000 °C	@Strain 1.33 %, Temperature 32.0 °F	ISO 11403-1 -2
	111.73 MPa	16205 psi	
	@Strain 1.23 %, Temperature -20.0 °C	@Strain 1.23 %, Temperature -4.00 °F	ISO 11403-1 -2

Mechanical Properties	Metric MPa	English psi	Comments
	@Strain 1.77 %, Temperature 0.000 °C	@Strain 1.77 %, Temperature 32.0 °F	ISO 11403-1 -2
	140.62 MPa	20395 psi	
	@Strain 1.49 %, Temperature -40.0 °C	@Strain 1.49 %, Temperature -40.0 °F	ISO 11403-1 -2
	147.79 MPa	21435 psi	
	@Strain 1.77 %, Temperature -20.0 °C	@Strain 1.77 %, Temperature -4.00 °F	ISO 11403-1 -2
	169.84 MPa	24633 psi	
	@Strain 2.23 %, Temperature -20.0 °C	@Strain 2.23 %, Temperature -4.00 °F	ISO 11403-1 -2
	170.93 MPa	24791 psi	
	@Strain 1.91 %, Temperature -40.0 °C	@Strain 1.91 %, Temperature -40.0 °F	ISO 11403-1 -2
	197.31 MPa	28617 psi	
	@Strain 2.38 %, Temperature -40.0 °C	@Strain 2.38 %, Temperature -40.0 °F	ISO 11403-1 -2
Elongation at Break	3.5 %	3.5 %	ISO 527-1/-2
Tensile Modulus	8.50 GPa	1230 ksi	ISO 527-1/-2
	3.672 GPa	532.6 ksi	
	@Temperature 120 °C	@Temperature 248 °F	ISO 11403-1 -2
	6.643 GPa	963.5 ksi	
	@Temperature 40.0 °C	@Temperature 104 °F	ISO 11403-1 -2
	9.965 GPa	1445 ksi	
	@Temperature -40.0 °C	@Temperature -40.0 °F	ISO 11403-1 -2
Flexural Strength	200 MPa	29000 psi	ISO 178
Flexural Modulus	7.70 GPa	1120 ksi	ISO 178
Shear Modulus	0.7794 GPa	113.0 ksi	
	@Temperature 100 °C	@Temperature 212 °F	Dynamic; ISO 11403-1 -2
	1.256 GPa	182.2 ksi	
	@Temperature 60.0 °C	@Temperature 140 °F	Dynamic; ISO 11403-1 -2
	1.966 GPa	285.1 ksi	
	@Temperature 10.0 °C	@Temperature 50.0 °F	Dynamic; ISO 11403-1 -2

Mechanical Properties	Metric	English	Comments
	2.131 GPa	310.0 ksi	Dynamic; ISO 11403-1 -2
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	2.331 GPa	338.1 ksi	Dynamic; ISO 11403-1 -2
	@Temperature -70.0 °C	@Temperature -94.0 °F	
	2.501 GPa	362.7 ksi	Dynamic; ISO 11403-1 -2
	@Temperature -100 °C	@Temperature -148 °F	
Secant Modulus	2.95 GPa	428 ksi	ISO 11403-1 -2
	@Strain 3.47 %, Temperature 40.0 °C	@Strain 3.47 %, Temperature 104 °F	
	3.97 GPa	575 ksi	ISO 11403-1 -2
	@Strain 2.41 %, Temperature 40.0 °C	@Strain 2.41 %, Temperature 104 °F	
	4.95 GPa	717 ksi	ISO 11403-1 -2
	@Strain 1.62 %, Temperature 40.0 °C	@Strain 1.62 %, Temperature 104 °F	
	5.47 GPa	794 ksi	ISO 11403-1 -2
	@Strain 2.90 %, Temperature 0.000 °C	@Strain 2.90 %, Temperature 32.0 °F	
	5.71 GPa	828 ksi	ISO 11403-1 -2
	@Strain 2.05 %, Temperature 23.0 °C	@Strain 2.05 %, Temperature 73.4 °F	
	6.0413 GPa	876.23 ksi	ISO 11403-1 -2
	@Strain 0.920 %, Temperature 40.0 °C	@Strain 0.920 %, Temperature 104 °F	
	6.74 GPa	978 ksi	ISO 11403-1 -2
	@Strain 0.360 %, Temperature 40.0 °C	@Strain 0.360 %, Temperature 104 °F	
	6.8305 GPa	990.70 ksi	ISO 11403-1 -2
	@Strain 1.41 %, Temperature 23.0 °C	@Strain 1.41 %, Temperature 73.4 °F	
	6.95 GPa	1010 ksi	ISO 11403-1 -2
	@Strain 2.08 %, Temperature 0.000 °C	@Strain 2.08 %, Temperature 32.0 °F	

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