

DuPont Performance Polymers Crastin® SK612SF NC010 Polybutylene Terephthalate (PBT) (Unverified Data**)&l

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

Material Notes:

15% Glass Reinforced Low Viscosity Polybutylene Terephthalate Developed for Super Fast Production Crastin SK612SF is a 15% glass fiber reinforced low viscosity polybutylene terephthalate for injection molding. It has high flow characteristics and is spInformation provided by DuPont Performance Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Crastin-SK612SF-NC010-Polybutylene-Terephthalate-PBT-nbspUnverified-Datal.php

Physical Properties	Metric	English	Comments
Density	1.22 g/cc	0.0441 lb/in ³	
	1.42 g/cc	0.0513 lb/in ³	ISO 1183
Water Absorption	0.40 %	0.40 %	
	@Thickness 2.00 mm	@Thickness 0.0787 in	Sim. to ISO 62
Moisture Absorption	0.150 %	0.150 %	
	@Thickness 2.00 mm	@Thickness 0.0787 in	Sim. to ISO 62
Viscosity	54480 cP	54480 cP	
	@Shear Rate 5000 1/s, Temperature 260 °C	@Shear Rate 5000 1/s, Temperature 500 °F	ISO 11403-1 -2
	65970 cP	65970 cP	
	@Shear Rate 5000 1/s, Temperature 250 °C	@Shear Rate 5000 1/s, Temperature 482 °F	ISO 11403-1 -2
	81200 cP	81200 cP	
	@Shear Rate 5000 1/s, Temperature 240 °C	@Shear Rate 5000 1/s, Temperature 464 °F	ISO 11403-1 -2
	152700 cP	152700 cP	
	@Shear Rate 500 1/s, Temperature 260 °C	@Shear Rate 500 1/s, Temperature 500 °F	ISO 11403-1 -2
	187800 cP	187800 cP	
	@Shear Rate 500 1/s, Temperature 250 °C	@Shear Rate 500 1/s, Temperature 482 °F	ISO 11403-1 -2
	234000 cP	234000 cP	
	@Shear Rate 500 1/s, Temperature 240 °C	@Shear Rate 500 1/s, Temperature 464 °F	ISO 11403-1 -2

Linear Mold Shrinkage, Flow Physical Properties	0.0040 cm/cm Metric	0.0040 in/in English	ISO 294-4 2577 Comments
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	110 MPa	16000 psi	ISO 527-1/-2
Tensile Stress	9.443 MPa	1370 psi	ISO 11403-1 -2
	@Strain 0.546765 %, Temperature 160 °C	@Strain 0.546765 %, Temperature 320 °F	
	10.44 MPa	1514 psi	ISO 11403-1 -2
	@Strain 0.543915 %, Temperature 140 °C	@Strain 0.543915 %, Temperature 284 °F	
	13.88 MPa	2013 psi	ISO 11403-1 -2
	@Strain 0.298656 %, Temperature 40.0 °C	@Strain 0.298656 %, Temperature 104 °F	
	15.16 MPa	2198 psi	ISO 11403-1 -2
	@Strain 0.239814 %, Temperature -40.0 °C	@Strain 0.239814 %, Temperature -40.0 °F	
	15.89 MPa	2304 psi	ISO 11403-1 -2
	@Strain 0.268361 %, Temperature 23.0 °C	@Strain 0.268361 %, Temperature 73.4 °F	
	16.44 MPa	2384 psi	ISO 11403-1 -2
	@Strain 0.263749 %, Temperature -20.0 °C	@Strain 0.263749 %, Temperature -4.00 °F	
	19.57 MPa	2839 psi	ISO 11403-1 -2
	@Strain 1.3907 %, Temperature 160 °C	@Strain 1.3907 %, Temperature 320 °F	
	20.30 MPa	2945 psi	ISO 11403-1 -2
	@Strain 0.332444 %, Temperature 0.000 °C	@Strain 0.332444 %, Temperature 32.0 °F	
	20.39 MPa	2957 psi	ISO 11403-1 -2
	@Strain 1.23103 %, Temperature 140 °C	@Strain 1.23103 %, Temperature 284 °F	
	25.94 MPa	3762 psi	ISO 11403-1 -2
	@Strain 2.21207 %, Temperature 160 °C	@Strain 2.21207 %, Temperature 320 °F	
	28.35 MPa	4111 psi	ISO 11403-1 -2
	@Strain 2.01089 %,	@Strain 2.01089 %,	

Mechanical Properties	Temperature 140 °C Metric	Temperature 284 °F English	Comments
	30.25 MPa	4387 psi	
	@Strain 0.682024 %, Temperature 40.0 °C	@Strain 0.682024 %, Temperature 104 °F	ISO 11403-1 -2
	30.59 MPa	4437 psi	
	@Strain 3.09033 %, Temperature 160 °C	@Strain 3.09033 %, Temperature 320 °F	ISO 11403-1 -2
	32.37 MPa	4695 psi	
	@Strain 0.525841 %, Temperature -20.0 °C	@Strain 0.525841 %, Temperature -4.00 °F	ISO 11403-1 -2
	32.91 MPa	4774 psi	
	@Strain 0.527955 %, Temperature -40.0 °C	@Strain 0.527955 %, Temperature -40.0 °F	ISO 11403-1 -2
	34.51 MPa	5006 psi	
	@Strain 2.90782 %, Temperature 140 °C	@Strain 2.90782 %, Temperature 284 °F	ISO 11403-1 -2
	34.73 MPa	5037 psi	
	@Strain 0.597341 %, Temperature 23.0 °C	@Strain 0.597341 %, Temperature 73.4 °F	ISO 11403-1 -2
	35.17 MPa	5101 psi	
	@Strain 0.579891 %, Temperature 0.000 °C	@Strain 0.579891 %, Temperature 32.0 °F	ISO 11403-1 -2
	46.94 MPa	6808 psi	
	@Strain 1.13289 %, Temperature 40.0 °C	@Strain 1.13289 %, Temperature 104 °F	ISO 11403-1 -2
	47.47 MPa	6886 psi	
	@Strain 0.779352 %, Temperature -20.0 °C	@Strain 0.779352 %, Temperature -4.00 °F	ISO 11403-1 -2
	49.06 MPa	7116 psi	
	@Strain 0.795618 %, Temperature -40.0 °C	@Strain 0.795618 %, Temperature -40.0 °F	ISO 11403-1 -2
	51.90 MPa	7527 psi	
	@Strain 0.872047 %, Temperature 0.000 °C	@Strain 0.872047 %, Temperature 32.0 °F	ISO 11403-1 -2
	54.34 MPa	7881 psi	
	@Strain 0.971766 %, Temperature 23.0 °C	@Strain 0.971766 %, Temperature 73.4 °F	ISO 11403-1 -2
	62.24 MPa	9027 psi	

Mechanical Properties	Metric	English	Comments
	@Strain 1.66228 %, Temperature 40.0 °C	@Strain 1.66228 %, Temperature 104 °F	ISO 11403-1 -2
	63.03 MPa	9142 psi	
	@Strain 1.05428 %, Temperature -20.0 °C	@Strain 1.05428 %, Temperature -4.00 °F	ISO 11403-1 -2
	64.96 MPa	9422 psi	
	@Strain 1.07013 %, Temperature -40.0 °C	@Strain 1.07013 %, Temperature -40.0 °F	ISO 11403-1 -2
	69.141 MPa	10028 psi	
	@Strain 1.20176 %, Temperature 0.000 °C	@Strain 1.20176 %, Temperature 32.0 °F	ISO 11403-1 -2
	73.73 MPa	10690 psi	
	@Strain 1.40132 %, Temperature 23.0 °C	@Strain 1.40132 %, Temperature 73.4 °F	ISO 11403-1 -2
	107.5 MPa	15590 psi	
	@Strain 2.00763 %, Temperature -20.0 °C	@Strain 2.00763 %, Temperature -4.00 °F	ISO 11403-1 -2
	110.99 MPa	16098 psi	
	@Strain 2.0059 %, Temperature -40.0 °C	@Strain 2.0059 %, Temperature -40.0 °F	ISO 11403-1 -2
Elongation at Break	3.3 %	3.3 %	ISO 527-1/-2
Tensile Modulus	6.00 GPa	870 ksi	ISO 527-1/-2
Secant Modulus	1.23 GPa	179 ksi	
	@Strain 4.12508 %, Temperature 100 °C	@Strain 4.12508 %, Temperature 212 °F	ISO 11403-1 -2
	1.2757 GPa	185.03 ksi	
	@Strain 4.5039 %, Temperature 80.0 °C	@Strain 4.5039 %, Temperature 176 °F	ISO 11403-1 -2
	1.78 GPa	258 ksi	
	@Strain 2.20401 %, Temperature 100 °C	@Strain 2.20401 %, Temperature 212 °F	ISO 11403-1 -2
	2.06 GPa	298 ksi	
	@Strain 2.00926 %, Temperature 80.0 °C	@Strain 2.00926 %, Temperature 176 °F	ISO 11403-1 -2
	2.20 GPa	319 ksi	
	@Strain 1.02372 %, Temperature 100 °C	@Strain 1.02372 %, Temperature 212 °F	ISO 11403-1 -2

Mechanical Properties	Metric ¹ GPa	English ^{ksi}	Comments
	@Strain 1.11375 %, Temperature 80.0 °C	@Strain 1.11375 %, Temperature 176 °F	ISO 11403-1 -2
	2.45 GPa	355 ksi	
	@Strain 0.411103 %, Temperature 100 °C	@Strain 0.411103 %, Temperature 212 °F	ISO 11403-1 -2
	2.68 GPa	388 ksi	
	@Strain 0.437002 %, Temperature 80.0 °C	@Strain 0.437002 %, Temperature 176 °F	ISO 11403-1 -2
	2.7596 GPa	400.25 ksi	
	@Strain 3.00056 %, Temperature 40.0 °C	@Strain 3.00056 %, Temperature 104 °F	ISO 11403-1 -2
	3.43 GPa	497 ksi	
	@Strain 2.06534 %, Temperature 40.0 °C	@Strain 2.06534 %, Temperature 104 °F	ISO 11403-1 -2
	4.0227 GPa	583.45 ksi	
	@Strain 1.30015 %, Temperature 40.0 °C	@Strain 1.30015 %, Temperature 104 °F	ISO 11403-1 -2
	4.10 GPa	595 ksi	
	@Strain 2.5045 %, Temperature 23.0 °C	@Strain 2.5045 %, Temperature 73.4 °F	ISO 11403-1 -2
	4.44 GPa	643 ksi	
	@Strain 0.682024 %, Temperature 40.0 °C	@Strain 0.682024 %, Temperature 104 °F	ISO 11403-1 -2
	4.65 GPa	674 ksi	
	@Strain 0.298656 %, Temperature 40.0 °C	@Strain 0.298656 %, Temperature 104 °F	ISO 11403-1 -2
	4.97 GPa	721 ksi	
	@Strain 1.72197 %, Temperature 23.0 °C	@Strain 1.72197 %, Temperature 73.4 °F	ISO 11403-1 -2
	5.14 GPa	745 ksi	
	@Strain 1.96921 %, Temperature 0.000 °C	@Strain 1.96921 %, Temperature 32.0 °F	ISO 11403-1 -2
	5.49 GPa	796 ksi	
	@Strain 1.11022 %, Temperature 23.0 °C	@Strain 1.11022 %, Temperature 73.4 °F	ISO 11403-1 -2
	5.59 GPa	810 ksi	

Mechanical Properties	Metric @Strain 1.44095 %, Temperature 0.000 °C	English @Strain 1.44095 %, Temperature 32.0 °F	ISO 11403-1 -2 Comments
	5.61 GPa	814 ksi	
	@Strain 1.66598 %, Temperature -20.0 °C	@Strain 1.66598 %, Temperature -4.00 °F	ISO 11403-1 -2
	5.75 GPa	833 ksi	
	@Strain 1.67592 %, Temperature -40.0 °C	@Strain 1.67592 %, Temperature -40.0 °F	ISO 11403-1 -2

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