

DuPont Performance Polymers Crastin® LW9330 BK851 PBT (Unverified Data**)

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

Material Notes:

Crastin® LW9330 BK851 is a 30% glass fiber reinforced, black polybutylene terephthalate alloy for injection molding. It has improved surface aesthetics, excellent dimensional stability and low warpage characteristics. Information provided by DuPont Performance Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Crastin-LW9330-BK851-PBT-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Density	1.42 g/cc	0.0513 lb/in³	ISO 1183
Filler Content	30 %	30 %	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	133 MPa @Temperature 23.0 °C	19300 psi @Temperature 73.4 °F	ISO 527
Tensile Stress	5.18 MPa @Strain 0.100 %, Temperature 100 °C	751 psi @Strain 0.100 %, Temperature 212 °F	ISO 11403-1/-2
	7.49 MPa @Strain 0.100 %, Temperature 80.0 °C	1090 psi @Strain 0.100 %, Temperature 176 °F	ISO 11403-1/-2
	8.17 MPa @Strain 0.100 %, Temperature 23.0 °C	1180 psi @Strain 0.100 %, Temperature 73.4 °F	ISO 11403-1/-2
	9.44 MPa @Strain 0.100 %, Temperature -40.0 °C	1370 psi @Strain 0.100 %, Temperature -40.0 °F	ISO 11403-1/-2
	9.51 MPa @Strain 0.200 %, Temperature 100 °C	1380 psi @Strain 0.200 %, Temperature 212 °F	ISO 11403-1/-2
	13.08 MPa @Strain 0.300 %, Temperature 100 °C	1897 psi @Strain 0.300 %, Temperature 212 °F	ISO 11403-1/-2
	14.75 MPa @Strain 0.200 %, Temperature 80.0 °C	2139 psi @Strain 0.200 %, Temperature 176 °F	ISO 11403-1/-2

Mechanical Properties	Metric	English	Comments
	17.35 MPa	2504 psi	
	@Strain 0.200 %, Temperature 23.0 °C	@Strain 0.200 %, Temperature 73.4 °F	ISO 11403-1/-2
	18.94 MPa	2747 psi	
	@Strain 0.200 %, Temperature -40.0 °C	@Strain 0.200 %, Temperature -40.0 °F	ISO 11403-1/-2
	20.38 MPa	2956 psi	
	@Strain 0.500 %, Temperature 100 °C	@Strain 0.500 %, Temperature 212 °F	ISO 11403-1/-2
	20.83 MPa	3021 psi	
	@Strain 0.300 %, Temperature 80.0 °C	@Strain 0.300 %, Temperature 176 °F	ISO 11403-1/-2
	23.72 MPa	3440 psi	
	@Strain 0.600 %, Temperature 100 °C	@Strain 0.600 %, Temperature 212 °F	ISO 11403-1/-2
	26.42 MPa	3832 psi	
	@Strain 0.300 %, Temperature 23.0 °C	@Strain 0.300 %, Temperature 73.4 °F	ISO 11403-1/-2
	26.52 MPa	3846 psi	
	@Strain 0.700 %, Temperature 100 °C	@Strain 0.700 %, Temperature 212 °F	ISO 11403-1/-2
	28.75 MPa	4170 psi	
	@Strain 0.800 %, Temperature 100 °C	@Strain 0.800 %, Temperature 212 °F	ISO 11403-1/-2
	28.9 MPa	4190 psi	
	@Strain 0.300 %, Temperature -40.0 °C	@Strain 0.300 %, Temperature -40.0 °F	ISO 11403-1/-2
	30.54 MPa	4429 psi	
	@Strain 0.900 %, Temperature 100 °C	@Strain 0.900 %, Temperature 212 °F	ISO 11403-1/-2
	32.05 MPa	4648 psi	
	@Strain 0.500 %, Temperature 80.0 °C	@Strain 0.500 %, Temperature 176 °F	ISO 11403-1/-2
	32.16 MPa	4664 psi	
	@Strain 1.00 %, Temperature 100 °C	@Strain 1.00 %, Temperature 212 °F	ISO 11403-1/-2
	33.48 MPa	4856 psi	

Mechanical Properties	Metric @Strain 1.10 %, Temperature 100 °C	English @Strain 1.10 %, Temperature 212 °F	ISO 11403-1/-2 Comments
	34.63 MPa	5023 psi	
	@Strain 1.20 %, Temperature 100 °C	@Strain 1.20 %, Temperature 212 °F	ISO 11403-1/-2
	35.64 MPa	5169 psi	
	@Strain 1.30 %, Temperature 100 °C	@Strain 1.30 %, Temperature 212 °F	ISO 11403-1/-2
	36.35 MPa	5272 psi	
	@Strain 0.600 %, Temperature 80.0 °C	@Strain 0.600 %, Temperature 176 °F	ISO 11403-1/-2
	36.46 MPa	5288 psi	
	@Strain 1.40 %, Temperature 100 °C	@Strain 1.40 %, Temperature 212 °F	ISO 11403-1/-2
	37.08 MPa	5378 psi	
	@Strain 1.50 %, Temperature 100 °C	@Strain 1.50 %, Temperature 212 °F	ISO 11403-1/-2
	37.65 MPa	5461 psi	
	@Strain 1.60 %, Temperature 100 °C	@Strain 1.60 %, Temperature 212 °F	ISO 11403-1/-2
	38.11 MPa	5527 psi	
	@Strain 1.70 %, Temperature 100 °C	@Strain 1.70 %, Temperature 212 °F	ISO 11403-1/-2
	38.57 MPa	5594 psi	
	@Strain 1.80 %, Temperature 100 °C	@Strain 1.80 %, Temperature 212 °F	ISO 11403-1/-2
	39.06 MPa	5665 psi	
	@Strain 1.90 %, Temperature 100 °C	@Strain 1.90 %, Temperature 212 °F	ISO 11403-1/-2
	39.51 MPa	5730 psi	
	@Strain 2.00 %, Temperature 100 °C	@Strain 2.00 %, Temperature 212 °F	ISO 11403-1/-2
	39.99 MPa	5800 psi	
	@Strain 2.10 %, Temperature 100 °C	@Strain 2.10 %, Temperature 212 °F	ISO 11403-1/-2
	40.07 MPa	5812 psi	
	@Strain 0.700 %, Temperature 80.0 °C	@Strain 0.700 %, Temperature 176 °F	ISO 11403-1/-2

Mechanical Properties	40.44 MPa Metric	5865 psi English	Comments ISO 11403-1/-2
	@Strain 2.20 %, Temperature 100 °C	@Strain 2.20 %, Temperature 212 °F	
	40.83 MPa	5922 psi	
	@Strain 2.30 %, Temperature 100 °C	@Strain 2.30 %, Temperature 212 °F	ISO 11403-1/-2
	41.13 MPa	5965 psi	
	@Strain 2.40 %, Temperature 100 °C	@Strain 2.40 %, Temperature 212 °F	ISO 11403-1/-2
	41.41 MPa	6006 psi	
	@Strain 2.50 %, Temperature 100 °C	@Strain 2.50 %, Temperature 212 °F	ISO 11403-1/-2
	41.65 MPa	6041 psi	
	@Strain 2.60 %, Temperature 100 °C	@Strain 2.60 %, Temperature 212 °F	ISO 11403-1/-2
	41.86 MPa	6071 psi	
	@Strain 2.70 %, Temperature 100 °C	@Strain 2.70 %, Temperature 212 °F	ISO 11403-1/-2
	42.05 MPa	6099 psi	
	@Strain 2.80 %, Temperature 100 °C	@Strain 2.80 %, Temperature 212 °F	ISO 11403-1/-2
	42.21 MPa	6122 psi	
	@Strain 2.90 %, Temperature 100 °C	@Strain 2.90 %, Temperature 212 °F	ISO 11403-1/-2
	42.33 MPa	6139 psi	
	@Strain 3.90 %, Temperature 100 °C	@Strain 3.90 %, Temperature 212 °F	ISO 11403-1/-2
	42.37 MPa	6145 psi	
	@Strain 3.00 %, Temperature 100 °C	@Strain 3.00 %, Temperature 212 °F	ISO 11403-1/-2
	42.48 MPa	6161 psi	
	@Strain 3.10 %, Temperature 100 °C	@Strain 3.10 %, Temperature 212 °F	ISO 11403-1/-2
	42.59 MPa	6177 psi	
	@Strain 3.20 %, Temperature 100 °C	@Strain 3.20 %, Temperature 212 °F	ISO 11403-1/-2
	42.63 MPa	6183 psi	
	@Strain 3.80 %,	@Strain 3.80 %,	ISO 11403-1/-2

Mechanical Properties	Temperature 100 °C Metric	Temperature 212 °F English	Comments
	42.66 MPa	6187 psi	
	@Strain 3.30 %, Temperature 100 °C	@Strain 3.30 %, Temperature 212 °F	ISO 11403-1/-2
	42.71 MPa	6195 psi	
	@Strain 3.40 %, Temperature 100 °C	@Strain 3.40 %, Temperature 212 °F	ISO 11403-1/-2
	42.71 MPa	6195 psi	
	@Strain 3.70 %, Temperature 100 °C	@Strain 3.70 %, Temperature 212 °F	ISO 11403-1/-2
	42.75 MPa	6200 psi	
	@Strain 3.50 %, Temperature 100 °C	@Strain 3.50 %, Temperature 212 °F	ISO 11403-1/-2
	42.75 MPa	6200 psi	
	@Strain 3.60 %, Temperature 100 °C	@Strain 3.60 %, Temperature 212 °F	ISO 11403-1/-2
	43.98 MPa	6379 psi	
	@Strain 0.800 %, Temperature 80.0 °C	@Strain 0.800 %, Temperature 176 °F	ISO 11403-1/-2
	44.12 MPa	6399 psi	
	@Strain 0.500 %, Temperature 23.0 °C	@Strain 0.500 %, Temperature 73.4 °F	ISO 11403-1/-2
	47.48 MPa	6886 psi	
	@Strain 0.900 %, Temperature 80.0 °C	@Strain 0.900 %, Temperature 176 °F	ISO 11403-1/-2
	50.0 MPa	7250 psi	
	@Strain 0.500 %, Temperature -40.0 °C	@Strain 0.500 %, Temperature -40.0 °F	ISO 11403-1/-2
	50.45 MPa	7317 psi	
	@Strain 1.00 %, Temperature 80.0 °C	@Strain 1.00 %, Temperature 176 °F	ISO 11403-1/-2
	53.04 MPa	7693 psi	
	@Strain 1.10 %, Temperature 80.0 °C	@Strain 1.10 %, Temperature 176 °F	ISO 11403-1/-2
	54.45 MPa	7897 psi	
	@Strain 0.600 %, Temperature 23.0 °C	@Strain 0.600 %, Temperature 73.4 °F	ISO 11403-1/-2
	55.36 MPa	8029 psi	

Mechanical Properties	Metric	English	ISO 11403-1/-2 Comments
	@Strain 1.20 %, Temperature 80.0 °C	@Strain 1.20 %, Temperature 176 °F	
	57.42 MPa	8328 psi	
	@Strain 1.30 %, Temperature 80.0 °C	@Strain 1.30 %, Temperature 176 °F	ISO 11403-1/-2
	59.16 MPa	8580 psi	
	@Strain 1.40 %, Temperature 80.0 °C	@Strain 1.40 %, Temperature 176 °F	ISO 11403-1/-2
	59.58 MPa	8641 psi	
	@Strain 0.600 %, Temperature -40.0 °C	@Strain 0.600 %, Temperature -40.0 °F	ISO 11403-1/-2
	60.64 MPa	8795 psi	
	@Strain 1.50 %, Temperature 80.0 °C	@Strain 1.50 %, Temperature 176 °F	ISO 11403-1/-2

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