

## DuPont Performance Polymers Crastin® LW9330 NC010 PBT+SAN (Unverified Data\*\*)

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , SAN Polymer , Styrene Acrylonitrile (SAN), Molded, Glass Reinforced

### Material Notes:

30% Glass Reinforced Polybutylene Terephthalate Blend with Low Warpage Characteristics Crastin LW9330 NC010 is a 30% glass fiber reinforced polybutylene terephthalate blend for injection molding. It has improved surface aesthetics excellent dimensional information provided by DuPont Performance Polymers

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_DuPont-Performance-Polymers-Crastin-LW9330-NC010-PBTSAN-nbspUnverified-Data.php](http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Crastin-LW9330-NC010-PBTSAN-nbspUnverified-Data.php)

Physical Properties	Metric	English	Comments
Density	1.27 g/cc	0.0459 lb/in <sup>3</sup>	
	1.42 g/cc	0.0513 lb/in <sup>3</sup>	ISO 1183
Water Absorption	1.0 %	1.0 %	Sim. to ISO 62
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Moisture Absorption	0.250 %	0.250 %	Sim. to ISO 62
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Viscosity	72620 cP	72620 cP	ISO 11403-1 -2
	@Shear Rate 5000 1/s, Temperature 260 °C	@Shear Rate 5000 1/s, Temperature 500 °F	
	80869 cP	80869 cP	ISO 11403-1 -2
	@Shear Rate 5000 1/s, Temperature 250 °C	@Shear Rate 5000 1/s, Temperature 482 °F	
	90740 cP	90740 cP	ISO 11403-1 -2
	@Shear Rate 5000 1/s, Temperature 240 °C	@Shear Rate 5000 1/s, Temperature 464 °F	
	318500 cP	318500 cP	ISO 11403-1 -2
	@Shear Rate 500 1/s, Temperature 260 °C	@Shear Rate 500 1/s, Temperature 500 °F	
369400 cP	369400 cP	ISO 11403-1 -2	
@Shear Rate 500 1/s, Temperature 250 °C	@Shear Rate 500 1/s, Temperature 482 °F		
428400 cP	428400 cP	ISO 11403-1 -2	
@Shear Rate 500 1/s, Temperature 240 °C	@Shear Rate 500 1/s, Temperature 464 °F		

Linear Mold Shrinkage, Flow Physical Properties	0.0030 cm/cm Metric	0.0030 in/in English	ISO 294-4 2577 Comments
Linear Mold Shrinkage, Transverse	0.0060 cm/cm	0.0060 in/in	ISO 294-4 2577

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	135 MPa	19600 psi	ISO 527-1/-2
Tensile Stress	3.97 MPa	576 psi	ISO 11403-1 -2
	@Strain 0.250 %, Temperature 150 °C	@Strain 0.250 %, Temperature 302 °F	
	8.22 MPa	1190 psi	ISO 11403-1 -2
	@Strain 0.150 %, Temperature 90.0 °C	@Strain 0.150 %, Temperature 194 °F	
	15.28 MPa	2216 psi	ISO 11403-1 -2
	@Strain 1.77 %, Temperature 150 °C	@Strain 1.77 %, Temperature 302 °F	
	17.5 MPa	2540 psi	ISO 11403-1 -2
	@Strain 2.53 %, Temperature 150 °C	@Strain 2.53 %, Temperature 302 °F	
	19.01 MPa	2757 psi	ISO 11403-1 -2
	@Strain 3.28 %, Temperature 150 °C	@Strain 3.28 %, Temperature 302 °F	
	21.56 MPa	3127 psi	ISO 11403-1 -2
	@Strain 5.55 %, Temperature 150 °C	@Strain 5.55 %, Temperature 302 °F	
	24.51 MPa	3555 psi	ISO 11403-1 -2
	@Strain 0.320 %, Temperature 40.0 °C	@Strain 0.320 %, Temperature 104 °F	
	28.64 MPa	4154 psi	ISO 11403-1 -2
	@Strain 0.280 %, Temperature -20.0 °C	@Strain 0.280 %, Temperature -4.00 °F	
	33.29 MPa	4828 psi	ISO 11403-1 -2
	@Strain 0.350 %, Temperature 0.000 °C	@Strain 0.350 %, Temperature 32.0 °F	
	48.94 MPa	7098 psi	ISO 11403-1 -2
	@Strain 1.34 %, Temperature 90.0 °C	@Strain 1.34 %, Temperature 194 °F	
	55.89 MPa	8106 psi	ISO 11403-1 -2
	@Strain 1.93 %,	@Strain 1.93 %,	

Mechanical Properties	Temperature 90.0 °C Metric	Temperature 194 °F English	Comments
	58.68 MPa	8511 psi	
	@Strain 2.37 %, Temperature 90.0 °C	@Strain 2.37 %, Temperature 194 °F	ISO 11403-1 -2
	64.56 MPa	9364 psi	
	@Strain 0.940 %, Temperature 40.0 °C	@Strain 0.940 %, Temperature 104 °F	ISO 11403-1 -2
	72.75 MPa	10550 psi	
	@Strain 0.840 %, Temperature 23.0 °C	@Strain 0.840 %, Temperature 73.4 °F	ISO 11403-1 -2
	78.69 MPa	11410 psi	
	@Strain 1.25 %, Temperature 40.0 °C	@Strain 1.25 %, Temperature 104 °F	ISO 11403-1 -2
	89.84 MPa	13030 psi	
	@Strain 1.56 %, Temperature 40.0 °C	@Strain 1.56 %, Temperature 104 °F	ISO 11403-1 -2
	101.03 MPa	14653 psi	
	@Strain 1.30 %, Temperature 23.0 °C	@Strain 1.30 %, Temperature 73.4 °F	ISO 11403-1 -2
	105.92 MPa	15362 psi	
	@Strain 2.50 %, Temperature 40.0 °C	@Strain 2.50 %, Temperature 104 °F	ISO 11403-1 -2
	107.31 MPa	15564 psi	
	@Strain 1.20 %, Temperature -20.0 °C	@Strain 1.20 %, Temperature -4.00 °F	ISO 11403-1 -2
	110.09 MPa	15967 psi	
	@Strain 1.33 %, Temperature 0.000 °C	@Strain 1.33 %, Temperature 32.0 °F	ISO 11403-1 -2
	119.01 MPa	17261 psi	
	@Strain 1.75 %, Temperature 23.0 °C	@Strain 1.75 %, Temperature 73.4 °F	ISO 11403-1 -2
	124.94 MPa	18121 psi	
	@Strain 1.59 %, Temperature 0.000 °C	@Strain 1.59 %, Temperature 32.0 °F	ISO 11403-1 -2
	125.12 MPa	18147 psi	
	@Strain 1.47 %, Temperature -20.0 °C	@Strain 1.47 %, Temperature -4.00 °F	ISO 11403-1 -2
	125.56 MPa	18211 psi	

Mechanical Properties	Metric	English	Comments
	@Strain 2.03 %, Temperature 23.0 °C	@Strain 2.03 %, Temperature 73.4 °F	ISO 11403-1 -2
	139.24 MPa	20195 psi	
	@Strain 1.94 %, Temperature 0.000 °C	@Strain 1.94 %, Temperature 32.0 °F	ISO 11403-1 -2
	153.56 MPa	22272 psi	
	@Strain 2.03 %, Temperature -20.0 °C	@Strain 2.03 %, Temperature -4.00 °F	ISO 11403-1 -2
Elongation at Break	2.3 %	2.3 %	ISO 527-1/-2
Tensile Modulus	9.80 GPa	1420 ksi	ISO 527-1/-2
	1.527 GPa	221.5 ksi	
	@Temperature 150 °C	@Temperature 302 °F	ISO 11403-1 -2
	6.458 GPa	936.7 ksi	
	@Temperature 60.0 °C	@Temperature 140 °F	ISO 11403-1 -2
	10.439 GPa	1514.1 ksi	
	@Temperature -20.0 °C	@Temperature -4.00 °F	ISO 11403-1 -2
Flexural Modulus	8.40 GPa	1220 ksi	ISO 178
Secant Modulus	4.71 GPa	683 ksi	
	@Strain 2.19 %, Temperature 40.0 °C	@Strain 2.19 %, Temperature 104 °F	ISO 11403-1 -2
	5.39 GPa	782 ksi	
	@Strain 1.77 %, Temperature 40.0 °C	@Strain 1.77 %, Temperature 104 °F	ISO 11403-1 -2
	5.61 GPa	814 ksi	
	@Strain 2.30 %, Temperature 23.0 °C	@Strain 2.30 %, Temperature 73.4 °F	ISO 11403-1 -2
	6.10 GPa	884 ksi	
	@Strain 1.36 %, Temperature 40.0 °C	@Strain 1.36 %, Temperature 104 °F	ISO 11403-1 -2
	6.60 GPa	957 ksi	
	@Strain 1.84 %, Temperature 23.0 °C	@Strain 1.84 %, Temperature 73.4 °F	ISO 11403-1 -2
	6.85 GPa	993 ksi	
	@Strain 2.11 %, Temperature 0.000 °C	@Strain 2.11 %, Temperature 32.0 °F	ISO 11403-1 -2

Mechanical Properties	6.87 GPa Metric	996 ksi English	Comments
	@Strain 0.940 %, Temperature 40.0 °C	@Strain 0.940 %, Temperature 104 °F	ISO 11403-1 -2
	7.03 GPa	1020 ksi	
	@Strain 2.30 %, Temperature -20.0 °C	@Strain 2.30 %, Temperature -4.00 °F	ISO 11403-1 -2
	7.50 GPa	1090 ksi	
	@Strain 1.77 %, Temperature 0.000 °C	@Strain 1.77 %, Temperature 32.0 °F	ISO 11403-1 -2
	7.66 GPa	1110 ksi	
	@Strain 0.320 %, Temperature 40.0 °C	@Strain 0.320 %, Temperature 104 °F	ISO 11403-1 -2
	7.77 GPa	1130 ksi	
	@Strain 1.30 %, Temperature 23.0 °C	@Strain 1.30 %, Temperature 73.4 °F	ISO 11403-1 -2
	7.90 GPa	1150 ksi	
	@Strain 1.85 %, Temperature -20.0 °C	@Strain 1.85 %, Temperature -4.00 °F	ISO 11403-1 -2
	8.28 GPa	1200 ksi	
	@Strain 1.33 %, Temperature 0.000 °C	@Strain 1.33 %, Temperature 32.0 °F	ISO 11403-1 -2
	8.66 GPa	1260 ksi	
	@Strain 0.840 %, Temperature 23.0 °C	@Strain 0.840 %, Temperature 73.4 °F	ISO 11403-1 -2
	8.9425 GPa	1297.0 ksi	
	@Strain 1.20 %, Temperature -20.0 °C	@Strain 1.20 %, Temperature -4.00 °F	ISO 11403-1 -2
	9.51 GPa	1380 ksi	
	@Strain 0.350 %, Temperature 0.000 °C	@Strain 0.350 %, Temperature 32.0 °F	ISO 11403-1 -2
	10.2 GPa	1480 ksi	
	@Strain 0.280 %, Temperature -20.0 °C	@Strain 0.280 %, Temperature -4.00 °F	ISO 11403-1 -2
Izod Impact, Notched (ISO)	7.00 kJ/m <sup>2</sup>	3.33 ft-lb/in <sup>2</sup>	ISO 180/1A
	7.00 kJ/m <sup>2</sup>	3.33 ft-lb/in <sup>2</sup>	
	@Temperature -40.0 °C	@Temperature -40.0 °F	ISO 180/1A
Izod Impact, Unnotched (ISO)	45.0 kJ/m <sup>2</sup>	21.4 ft-lb/in <sup>2</sup>	ISO 180/1U

Mechanical Properties

Metric

English

Comments

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