

## DuPont Performance Polymers Crastin® LW9320 NC010 PBT+SAN (Unverified Data\*\*)

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

### Material Notes:

20% Glass Reinforced Polybutylene Terephthalate Blend with Low Warpage Characteristics Crastin LW9320 NC010 is a 20% 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-LW9320-NC010-PBTSAN-nbspUnverified-Data.php](http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Crastin-LW9320-NC010-PBTSAN-nbspUnverified-Data.php)

Physical Properties	Metric	English	Comments
Density	1.17 g/cc	0.0423 lb/in <sup>3</sup>	
	1.34 g/cc	0.0484 lb/in <sup>3</sup>	ISO 1183
Moisture Absorption	0.300 %	0.300 %	Sim. to ISO 62
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Viscosity	62350 cP	62350 cP	ISO 11403-1 -2
	@Shear Rate 5000 1/s, Temperature 260 °C	@Shear Rate 5000 1/s, Temperature 500 °F	
	70960 cP	70960 cP	ISO 11403-1 -2
	@Shear Rate 5000 1/s, Temperature 250 °C	@Shear Rate 5000 1/s, Temperature 482 °F	
	81560 cP	81560 cP	ISO 11403-1 -2
	@Shear Rate 5000 1/s, Temperature 240 °C	@Shear Rate 5000 1/s, Temperature 464 °F	
257200 cP	257200 cP	ISO 11403-1 -2	
@Shear Rate 500 1/s, Temperature 260 °C	@Shear Rate 500 1/s, Temperature 500 °F		
305400 cP	305400 cP	ISO 11403-1 -2	
@Shear Rate 500 1/s, Temperature 250 °C	@Shear Rate 500 1/s, Temperature 482 °F		
362870 cP	362870 cP	ISO 11403-1 -2	
@Shear Rate 500 1/s, Temperature 240 °C	@Shear Rate 500 1/s, Temperature 464 °F		
Viscosity Test	120 cm <sup>3</sup> /g	120 cm <sup>3</sup> /g	ISO 307 1157 1628
Linear Mold Shrinkage, Flow	0.0040 cm/cm	0.0040 in/in	ISO 294-4 2577

Linear Mold Shrinkage, Transverse Physical Properties	0.0070 cm/cm Metric	0.0070 in/in English	ISO 294-4 2577 Comments
<b>Mechanical Properties</b>	<b>Metric</b>	<b>English</b>	<b>Comments</b>
Tensile Strength at Break	120 MPa	17400 psi	ISO 527-1/-2
Tensile Stress	13.27 MPa	1925 psi	ISO 11403-1 -2
	@Strain 1.82 %, Temperature 150 °C	@Strain 1.82 %, Temperature 302 °F	
	16.24 MPa	2355 psi	ISO 11403-1 -2
	@Strain 3.01 %, Temperature 150 °C	@Strain 3.01 %, Temperature 302 °F	
	17.67 MPa	2563 psi	ISO 11403-1 -2
	@Strain 3.90 %, Temperature 150 °C	@Strain 3.90 %, Temperature 302 °F	
	18.76 MPa	2721 psi	ISO 11403-1 -2
	@Strain 4.81 %, Temperature 150 °C	@Strain 4.81 %, Temperature 302 °F	
	19.9 MPa	2890 psi	ISO 11403-1 -2
	@Strain 7.50 %, Temperature 150 °C	@Strain 7.50 %, Temperature 302 °F	
	33.89 MPa	4915 psi	ISO 11403-1 -2
	@Strain 1.04 %, Temperature 90.0 °C	@Strain 1.04 %, Temperature 194 °F	
	36.62 MPa	5311 psi	ISO 11403-1 -2
	@Strain 0.670 %, Temperature 40.0 °C	@Strain 0.670 %, Temperature 104 °F	
	40.46 MPa	5868 psi	ISO 11403-1 -2
	@Strain 0.580 %, Temperature 23.0 °C	@Strain 0.580 %, Temperature 73.4 °F	
	44.61 MPa	6470 psi	ISO 11403-1 -2
	@Strain 1.73 %, Temperature 90.0 °C	@Strain 1.73 %, Temperature 194 °F	
	49.04 MPa	7113 psi	ISO 11403-1 -2
	@Strain 2.25 %, Temperature 90.0 °C	@Strain 2.25 %, Temperature 194 °F	
	51.49 MPa	7468 psi	ISO 11403-1 -2
	@Strain 2.76 %, Temperature 90.0 °C	@Strain 2.76 %, Temperature 194 °F	

Mechanical Properties	56.45 MPa Metric	8187 psi English	Comments ISO 11403-1 -2
	@Strain 1.12 %, Temperature 40.0 °C	@Strain 1.12 %, Temperature 104 °F	
	<b>57.6 MPa</b>	<b>8350 psi</b>	ISO 11403-1 -2
	@Strain 0.824 %, Temperature 0.000 °C	@Strain 0.824 %, Temperature 32.0 °F	
	<b>68.32 MPa</b>	<b>9909 psi</b>	ISO 11403-1 -2
	@Strain 1.46 %, Temperature 40.0 °C	@Strain 1.46 %, Temperature 104 °F	
	<b>73.5 MPa</b>	<b>10700 psi</b>	ISO 11403-1 -2
	@Strain 1.05 %, Temperature -20.0 °C	@Strain 1.05 %, Temperature -4.00 °F	
	<b>77.56 MPa</b>	<b>11250 psi</b>	ISO 11403-1 -2
	@Strain 1.80 %, Temperature 40.0 °C	@Strain 1.80 %, Temperature 104 °F	
	<b>78.81 MPa</b>	<b>11430 psi</b>	ISO 11403-1 -2
	@Strain 1.25 %, Temperature 23.0 °C	@Strain 1.25 %, Temperature 73.4 °F	
	<b>87.56 MPa</b>	<b>12700 psi</b>	ISO 11403-1 -2
	@Strain 1.35 %, Temperature 0.000 °C	@Strain 1.35 %, Temperature 32.0 °F	
	<b>90.7 MPa</b>	<b>13200 psi</b>	ISO 11403-1 -2
	@Strain 2.80 %, Temperature 40.0 °C	@Strain 2.80 %, Temperature 104 °F	
	<b>90.96 MPa</b>	<b>13190 psi</b>	ISO 11403-1 -2
	@Strain 1.54 %, Temperature 23.0 °C	@Strain 1.54 %, Temperature 73.4 °F	
	<b>99.91 MPa</b>	<b>14490 psi</b>	ISO 11403-1 -2
	@Strain 1.83 %, Temperature 23.0 °C	@Strain 1.83 %, Temperature 73.4 °F	
	<b>105.35 MPa</b>	<b>15280 psi</b>	ISO 11403-1 -2
	@Strain 1.73 %, Temperature 0.000 °C	@Strain 1.73 %, Temperature 32.0 °F	
	<b>115.83 MPa</b>	<b>16800 psi</b>	ISO 11403-1 -2
	@Strain 2.02 %, Temperature 0.000 °C	@Strain 2.02 %, Temperature 32.0 °F	
	<b>125.72 MPa</b>	<b>18234 psi</b>	ISO 11403-1 -2
	@Strain 2.11 %,	@Strain 2.11 %,	

Mechanical Properties	Temperature -20.0 °C Metric	Temperature -4.00 °F English	Comments
	135.08 MPa	19592 psi	
	@Strain 2.40 %, Temperature -20.0 °C	@Strain 2.40 %, Temperature -4.00 °F	ISO 11403-1 -2
Elongation at Break	2.5 %	2.5 %	ISO 527-1/-2
Tensile Modulus	7.40 GPa	1070 ksi	ISO 527-1/-2
	1.0845 GPa	157.29 ksi	
	@Temperature 135 °C	@Temperature 275 °F	Dynamic; ISO 11403-1 -2
	4.35 GPa	631 ksi	
	@Temperature 75.0 °C	@Temperature 167 °F	Dynamic; ISO 11403-1 -2
	6.17 GPa	895 ksi	
	@Temperature 45.0 °C	@Temperature 113 °F	Dynamic; ISO 11403-1 -2
	7.40 GPa	1070 ksi	
	@Temperature 5.00 °C	@Temperature 41.0 °F	Dynamic; ISO 11403-1 -2
	7.72 GPa	1120 ksi	
	@Temperature -20.0 °C	@Temperature -4.00 °F	Dynamic; ISO 11403-1 -2
	8.21 GPa	1190 ksi	
	@Temperature -45.0 °C	@Temperature -49.0 °F	Dynamic; ISO 11403-1 -2
	8.27 GPa	1200 ksi	
	@Temperature -60.0 °C	@Temperature -76.0 °F	Dynamic; ISO 11403-1 -2
Flexural Modulus	6.50 GPa	943 ksi	ISO 178
Secant Modulus	3.59 GPa	521 ksi	
	@Strain 2.47 %, Temperature 40.0 °C	@Strain 2.47 %, Temperature 104 °F	ISO 11403-1 -2
	4.07 GPa	590 ksi	
	@Strain 2.02 %, Temperature 40.0 °C	@Strain 2.02 %, Temperature 104 °F	ISO 11403-1 -2
	4.56 GPa	661 ksi	
	@Strain 1.57 %, Temperature 40.0 °C	@Strain 1.57 %, Temperature 104 °F	ISO 11403-1 -2
	5.04 GPa	731 ksi	
	@Strain 1.12 %, Temperature 40.0 °C	@Strain 1.12 %, Temperature 104 °F	ISO 11403-1 -2
	5.16 GPa	749 ksi	

Mechanical Properties	Metric	English	Comments 1 -2
	@Strain 2.02 %, Temperature 23.0 °C	@Strain 2.02 %, Temperature 73.4 °F	
	5.25 GPa	761 ksi	ISO 11403-1 -2
	@Strain 2.40 %, Temperature 0.000 °C	@Strain 2.40 %, Temperature 32.0 °F	
	5.456 GPa	791.3 ksi	ISO 11403-1 -2
	@Strain 2.50 %, Temperature -20.0 °C	@Strain 2.50 %, Temperature -4.00 °F	
	5.47 GPa	793 ksi	ISO 11403-1 -2
	@Strain 0.670 %, Temperature 40.0 °C	@Strain 0.670 %, Temperature 104 °F	
	5.75 GPa	834 ksi	ISO 11403-1 -2
	@Strain 1.64 %, Temperature 23.0 °C	@Strain 1.64 %, Temperature 73.4 °F	
	5.96 GPa	864 ksi	ISO 11403-1 -2
	@Strain 2.11 %, Temperature -20.0 °C	@Strain 2.11 %, Temperature -4.00 °F	
	5.99 GPa	869 ksi	ISO 11403-1 -2
	@Strain 1.82 %, Temperature 0.000 °C	@Strain 1.82 %, Temperature 32.0 °F	
	6.3048 GPa	914.45 ksi	ISO 11403-1 -2
	@Strain 1.25 %, Temperature 23.0 °C	@Strain 1.25 %, Temperature 73.4 °F	
	6.49 GPa	941 ksi	ISO 11403-1 -2
	@Strain 1.35 %, Temperature 0.000 °C	@Strain 1.35 %, Temperature 32.0 °F	
	6.98 GPa	1010 ksi	ISO 11403-1 -2
	@Strain 0.580 %, Temperature 23.0 °C	@Strain 0.580 %, Temperature 73.4 °F	
	6.99 GPa	1010 ksi	ISO 11403-1 -2
	@Strain 0.824 %, Temperature 0.000 °C	@Strain 0.824 %, Temperature 32.0 °F	
	7.00 GPa	1020 ksi	ISO 11403-1 -2
	@Strain 1.05 %, Temperature -20.0 °C	@Strain 1.05 %, Temperature -4.00 °F	
Izod Impact, Notched (ISO)	7.00 kJ/m <sup>2</sup>	3.33 ft-lb/in <sup>2</sup>	ISO 180/1A

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