

DuPont Performance Polymers Crastin® LW9030FR NC010 PBT+ASA (Unverified Data**)

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , PBT + ASA Blend, Glass Fiber Reinforced

Material Notes:

30% Glass Reinforced Flame Retardant Polybutylene Terephthalate Blend with Low Warpage Characteristics Crastin LW9030FR NC010 is a 30% glass fiber reinforced flame retardant polybutylene terephthalate blend for injection molding. It has improved surface information provided by DuPont Performance Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Crastin-LW9030FR-NC010-PBTASA-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Density	1.42 g/cc	0.0513 lb/in ³	
	1.57 g/cc	0.0567 lb/in ³	ISO 1183
Water Absorption	0.72 %	0.72 %	Sim. to ISO 62
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Moisture Absorption	0.210 %	0.210 %	Sim. to ISO 62
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Linear Mold Shrinkage, Flow	0.0030 cm/cm	0.0030 in/in	ISO 294-4 2577
Linear Mold Shrinkage, Transverse	0.0080 cm/cm	0.0080 in/in	ISO 294-4 2577

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	125 MPa	18100 psi	ISO 527-1/-2
Tensile Stress	4.04 MPa	586 psi	ISO 11403-1 -2
	@Strain 0.200 %, Temperature 150 °C	@Strain 0.200 %, Temperature 302 °F	
	5.165 MPa	749.1 psi	ISO 11403-1 -2
	@Strain 0.310 %, Temperature 160 °C	@Strain 0.310 %, Temperature 320 °F	
	12.8 MPa	1860 psi	ISO 11403-1 -2
	@Strain 0.940 %, Temperature 150 °C	@Strain 0.940 %, Temperature 302 °F	
	15.5 MPa	2250 psi	ISO 11403-1 -2
	@Strain 1.48 %, Temperature 150 °C	@Strain 1.48 %, Temperature 302 °F	
	17.14 MPa	2486 psi	

Mechanical Properties	Metric	English	Comments
	@Strain 2.03 %, Temperature 150 °C	@Strain 2.03 %, Temperature 302 °F	ISO 11403-1 -2
	17.37 MPa	2519 psi	
	@Strain 2.935 %, Temperature 160 °C	@Strain 2.935 %, Temperature 320 °F	ISO 11403-1 -2
	34.95 MPa	5069 psi	
	@Strain 0.400 %, Temperature 40.0 °C	@Strain 0.400 %, Temperature 104 °F	ISO 11403-1 -2
	36.17 MPa	5246 psi	
	@Strain 0.340 %, Temperature 23.0 °C	@Strain 0.340 %, Temperature 73.4 °F	ISO 11403-1 -2
	42.12 MPa	6109 psi	
	@Strain 0.850 %, Temperature 90.0 °C	@Strain 0.850 %, Temperature 194 °F	ISO 11403-1 -2
	50.29 MPa	7294 psi	
	@Strain 1.21 %, Temperature 90.0 °C	@Strain 1.21 %, Temperature 194 °F	ISO 11403-1 -2
	55.1 MPa	7990 psi	
	@Strain 1.57 %, Temperature 90.0 °C	@Strain 1.57 %, Temperature 194 °F	ISO 11403-1 -2
	58.12 MPa	8430 psi	
	@Strain 1.92 %, Temperature 90.0 °C	@Strain 1.92 %, Temperature 194 °F	ISO 11403-1 -2
	60.34 MPa	8752 psi	
	@Strain 0.580 %, Temperature 0.000 °C	@Strain 0.580 %, Temperature 32.0 °F	ISO 11403-1 -2
	74.31 MPa	10780 psi	
	@Strain 0.710 %, Temperature -20.0 °C	@Strain 0.710 %, Temperature -4.00 °F	ISO 11403-1 -2
	75.6 MPa	11000 psi	
	@Strain 1.05 %, Temperature 40.0 °C	@Strain 1.05 %, Temperature 104 °F	ISO 11403-1 -2
	77.91 MPa	11300 psi	
	@Strain 0.770 %, Temperature 0.000 °C	@Strain 0.770 %, Temperature 32.0 °F	ISO 11403-1 -2
	87.45 MPa	12680 psi	
	@Strain 0.960 %, Temperature 23.0 °C	@Strain 0.960 %, Temperature 73.4 °F	ISO 11403-1 -2

Mechanical Properties	Metric MPa	English psi	Comments
	@Strain 1.37 %, Temperature 40.0 °C	@Strain 1.37 %, Temperature 104 °F	ISO 11403-1 -2
	96.93 MPa	14060 psi	
	@Strain 0.960 %, Temperature -20.0 °C	@Strain 0.960 %, Temperature -4.00 °F	ISO 11403-1 -2
	96.94 MPa	14060 psi	
	@Strain 1.77 %, Temperature 40.0 °C	@Strain 1.77 %, Temperature 104 °F	ISO 11403-1 -2
	98.11 MPa	14230 psi	
	@Strain 1.03 %, Temperature 0.000 °C	@Strain 1.03 %, Temperature 32.0 °F	ISO 11403-1 -2
	105.41 MPa	15288 psi	
	@Strain 1.30 %, Temperature 23.0 °C	@Strain 1.30 %, Temperature 73.4 °F	ISO 11403-1 -2
	110.94 MPa	16091 psi	
	@Strain 1.22 %, Temperature 0.000 °C	@Strain 1.22 %, Temperature 32.0 °F	ISO 11403-1 -2
	114.82 MPa	16653 psi	
	@Strain 1.57 %, Temperature 23.0 °C	@Strain 1.57 %, Temperature 73.4 °F	ISO 11403-1 -2
	120.22 MPa	17436 psi	
	@Strain 1.28 %, Temperature -20.0 °C	@Strain 1.28 %, Temperature -4.00 °F	ISO 11403-1 -2
Elongation at Break	1.8 %	1.8 %	ISO 527-1/-2
Tensile Modulus	10.5 GPa	1520 ksi	ISO 527-1/-2
	1.856 GPa	269.2 ksi	
	@Temperature 150 °C	@Temperature 302 °F	ISO 11403-1 -2
	7.46 GPa	1080 ksi	
	@Temperature 60.0 °C	@Temperature 140 °F	ISO 11403-1 -2
	11.243 GPa	1630.7 ksi	
	@Temperature -20.0 °C	@Temperature -4.00 °F	ISO 11403-1 -2
Flexural Strength	175 MPa	25400 psi	ISO 178
Secant Modulus	2.275 GPa	330.0 ksi	
	@Strain 2.00 %,	@Strain 2.00 %,	ISO 11403-1 -2

Mechanical Properties	Temperature 100 °C	Temperature 212 °F	Comments
	Metric 2.756 GPa	English 399.7 ksi	
	@Strain 2.50 %, Temperature 80.0 °C	@Strain 2.50 %, Temperature 176 °F	ISO 11403-1 -2
	4.40 GPa	638 ksi	
	@Strain 0.250 %, Temperature 100 °C	@Strain 0.250 %, Temperature 212 °F	ISO 11403-1 -2
	4.94 GPa	716 ksi	
	@Strain 1.00 %, Temperature 80.0 °C	@Strain 1.00 %, Temperature 176 °F	ISO 11403-1 -2
	5.14 GPa	746 ksi	
	@Strain 1.93 %, Temperature 40.0 °C	@Strain 1.93 %, Temperature 104 °F	ISO 11403-1 -2
	6.02 GPa	872 ksi	
	@Strain 1.53 %, Temperature 40.0 °C	@Strain 1.53 %, Temperature 104 °F	ISO 11403-1 -2
	6.89 GPa	1000 ksi	
	@Strain 1.71 %, Temperature 23.0 °C	@Strain 1.71 %, Temperature 73.4 °F	ISO 11403-1 -2
	7.20 GPa	1040 ksi	
	@Strain 1.05 %, Temperature 40.0 °C	@Strain 1.05 %, Temperature 104 °F	ISO 11403-1 -2
	7.9073 GPa	1146.9 ksi	
	@Strain 1.37 %, Temperature 23.0 °C	@Strain 1.37 %, Temperature 73.4 °F	ISO 11403-1 -2
	8.7375 GPa	1267.3 ksi	
	@Strain 0.400 %, Temperature 40.0 °C	@Strain 0.400 %, Temperature 104 °F	ISO 11403-1 -2
	8.75 GPa	1270 ksi	
	@Strain 1.60 %, Temperature -20.0 °C	@Strain 1.60 %, Temperature -4.00 °F	ISO 11403-1 -2
	8.77 GPa	1270 ksi	
	@Strain 1.35 %, Temperature 0.000 °C	@Strain 1.35 %, Temperature 32.0 °F	ISO 11403-1 -2
	9.11 GPa	1320 ksi	
	@Strain 0.960 %, Temperature 23.0 °C	@Strain 0.960 %, Temperature 73.4 °F	ISO 11403-1 -2
	9.37 GPa	1360 ksi	

Mechanical Properties	Metric	English	ISO 11403-1 -2 Comments
	@Strain 1.10 %, Temperature 0.000 °C	@Strain 1.10 %, Temperature 32.0 °F	
	10.1 GPa	1460 ksi	
	@Strain 0.960 %, Temperature -20.0 °C	@Strain 0.960 %, Temperature -4.00 °F	ISO 11403-1 -2
	10.1 GPa	1470 ksi	
	@Strain 0.770 %, Temperature 0.000 °C	@Strain 0.770 %, Temperature 32.0 °F	ISO 11403-1 -2
	10.4 GPa	1510 ksi	
	@Strain 0.580 %, Temperature 0.000 °C	@Strain 0.580 %, Temperature 32.0 °F	ISO 11403-1 -2
	10.5 GPa	1520 ksi	
	@Strain 0.710 %, Temperature -20.0 °C	@Strain 0.710 %, Temperature -4.00 °F	ISO 11403-1 -2
	10.6 GPa	1540 ksi	
	@Strain 0.340 %, Temperature 23.0 °C	@Strain 0.340 %, Temperature 73.4 °F	ISO 11403-1 -2
Izod Impact, Notched (ISO)	7.00 kJ/m ²	3.33 ft-lb/in ²	ISO 180/1A
	7.00 kJ/m ²	3.33 ft-lb/in ²	
	@Temperature -30.0 °C	@Temperature -22.0 °F	ISO 180/1A
Izod Impact, Unnotched (ISO)	35.0 kJ/m ²	16.7 ft-lb/in ²	ISO 180/1U
	35.0 kJ/m ²	16.7 ft-lb/in ²	
	@Temperature -30.0 °C	@Temperature -22.0 °F	ISO 180/1U
Charpy Impact Unnotched	4.00 J/cm ²	19.0 ft-lb/in ²	ISO 179/1eU
	4.00 J/cm ²	19.0 ft-lb/in ²	
	@Temperature -30.0 °C	@Temperature -22.0 °F	ISO 179/1eU
Charpy Impact, Notched	0.800 J/cm ²	3.81 ft-lb/in ²	ISO 179/1eA
	0.800 J/cm ²	3.81 ft-lb/in ²	
	@Temperature -30.0 °C	@Temperature -22.0 °F	ISO 179/1eA

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