

DuPont Performance Polymers Sorona® 3030GV NC010 Polytrimethylene Terephthalate (PTT)

Category : Polymer , Thermoplastic , Polyester, TP , Polytrimethylene Terephthalate (PTT)

Material Notes:

30% Glass Reinforced Renewably Sourced Polytrimethylene Terephthalate Sorona 3030GV NC010 is a 30% glass reinforced PTT resin containing 25% renewably sourced ingredients by weight (37% based on polymer only) with low warpage and superior strength

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Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Sorona-3030GV-NC010-Polytrimethylene-Terephthalate-PTT.php

Physical Properties	Metric	English	Comments
Density	1.56 g/cc	0.0564 lb/in ³	ISO 1183
Water Absorption at Saturation	0.080 %	0.080 %	Immersion 24h; ASTM D570
Linear Mold Shrinkage, Flow	0.0020 cm/cm	0.0020 in/in	ISO 294-4 2577
Linear Mold Shrinkage, Transverse	0.0070 cm/cm	0.0070 in/in	ISO 294-4 2577

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	165 MPa	23900 psi	ISO 527-1/-2
Tensile Stress	11.336 MPa	1644.2 psi	ISO 11403-1 -2
	@Strain 0.300 %, Temperature 150 °C	@Strain 0.300 %, Temperature 302 °F	
	20.97 MPa	3041 psi	ISO 11403-1 -2
	@Strain 0.200 %, Temperature 0.000 °C	@Strain 0.200 %, Temperature 32.0 °F	
	23.336 MPa	3384.6 psi	ISO 11403-1 -2
	@Strain 0.700 %, Temperature 150 °C	@Strain 0.700 %, Temperature 302 °F	
	30.288 MPa	4392.9 psi	ISO 11403-1 -2
	@Strain 1.00 %, Temperature 150 °C	@Strain 1.00 %, Temperature 302 °F	
	35.588 MPa	5161.6 psi	ISO 11403-1 -2
	@Strain 1.30 %, Temperature 150 °C	@Strain 1.30 %, Temperature 302 °F	
	41.122 MPa	5964.3 psi	ISO 11403-1 -2
	@Strain 0.400 %, Temperature 23.0 °C	@Strain 0.400 %, Temperature 73.4 °F	

Mechanical Properties	Metric	English	Comments
	44.831 MPa	6500.5 psi	ISO 11403-1 -2
	@Strain 0.500 %, Temperature 40.0 °C	@Strain 0.500 %, Temperature 104 °F	
	60.665 MPa	8798.7 psi	ISO 11403-1 -2
	@Strain 0.600 %, Temperature 0.000 °C	@Strain 0.600 %, Temperature 32.0 °F	
	67.258 MPa	9755.0 psi	ISO 11403-1 -2
	@Strain 0.800 %, Temperature 40.0 °C	@Strain 0.800 %, Temperature 104 °F	
	73.007 MPa	10589 psi	ISO 11403-1 -2
	@Strain 0.700 %, Temperature -40.0 °C	@Strain 0.700 %, Temperature -40.0 °F	
	86.656 MPa	12568 psi	ISO 11403-1 -2
	@Strain 0.900 %, Temperature 23.0 °C	@Strain 0.900 %, Temperature 73.4 °F	
	87.009 MPa	12620 psi	ISO 11403-1 -2
	@Strain 1.10 %, Temperature 40.0 °C	@Strain 1.10 %, Temperature 104 °F	
	87.947 MPa	12756 psi	ISO 11403-1 -2
	@Strain 0.900 %, Temperature 0.000 °C	@Strain 0.900 %, Temperature 32.0 °F	
	99.975 MPa	14500 psi	ISO 11403-1 -2
	@Strain 1.00 %, Temperature -40.0 °C	@Strain 1.00 %, Temperature -40.0 °F	
	103.52 MPa	15014 psi	ISO 11403-1 -2
	@Strain 1.40 %, Temperature 40.0 °C	@Strain 1.40 %, Temperature 104 °F	
	110.48 MPa	16024 psi	ISO 11403-1 -2
	@Strain 1.20 %, Temperature 23.0 °C	@Strain 1.20 %, Temperature 73.4 °F	
	112.39 MPa	16301 psi	ISO 11403-1 -2
	@Strain 1.20 %, Temperature 0.000 °C	@Strain 1.20 %, Temperature 32.0 °F	
	124.61 MPa	18073 psi	ISO 11403-1 -2
	@Strain 1.30 %, Temperature -40.0 °C	@Strain 1.30 %, Temperature -40.0 °F	
	130.43 MPa	18917 psi	ISO 11403-1 -2
	@Strain 1.50 %,	@Strain 1.50 %,	

Mechanical Properties	Temperature 23.0 °C Metric	Temperature 73.4 °F English	Comments
	147.73 MPa	21426 psi	
	@Strain 1.60 %, Temperature -40.0 °C	@Strain 1.60 %, Temperature -40.0 °F	ISO 11403-1 -2
Elongation at Break	2.5 %	2.5 %	ISO 527-1/-2
Tensile Modulus	11.0 GPa	1600 ksi	ISO 527-1/-2
Flexural Strength	245 MPa	35500 psi	ISO 178
Flexural Modulus	9.60 GPa	1390 ksi	ISO 178
Secant Modulus	3.19 GPa	463 ksi	
	@Strain 1.90 %, Temperature 100 °C	@Strain 1.90 %, Temperature 212 °F	ISO 11403-1 -2
	3.20 GPa	465 ksi	
	@Strain 2.40 %, Temperature 80.0 °C	@Strain 2.40 %, Temperature 176 °F	ISO 11403-1 -2
	3.71 GPa	538 ksi	
	@Strain 1.30 %, Temperature 100 °C	@Strain 1.30 %, Temperature 212 °F	ISO 11403-1 -2
	3.84 GPa	557 ksi	
	@Strain 1.60 %, Temperature 80.0 °C	@Strain 1.60 %, Temperature 176 °F	ISO 11403-1 -2
	4.16 GPa	603 ksi	
	@Strain 0.900 %, Temperature 100 °C	@Strain 0.900 %, Temperature 212 °F	ISO 11403-1 -2
	4.51 GPa	654 ksi	
	@Strain 0.900 %, Temperature 80.0 °C	@Strain 0.900 %, Temperature 176 °F	ISO 11403-1 -2
	4.7482 GPa	688.68 ksi	
	@Strain 0.500 %, Temperature 100 °C	@Strain 0.500 %, Temperature 212 °F	ISO 11403-1 -2
	5.0068 GPa	726.19 ksi	
	@Strain 0.500 %, Temperature 80.0 °C	@Strain 0.500 %, Temperature 176 °F	ISO 11403-1 -2
	5.4921 GPa	796.57 ksi	
	@Strain 0.100 %, Temperature 100 °C	@Strain 0.100 %, Temperature 212 °F	ISO 11403-1 -2
	5.565 GPa	807.1 ksi	
			ISO 11403-1 -2

Mechanical Properties	Metric @Strain 0.100 %, Temperature 80.0 °C	English @Strain 0.100 %, Temperature 176 °F	Comments
	6.54 GPa	948 ksi	
	@Strain 1.90 %, Temperature 40.0 °C	@Strain 1.90 %, Temperature 104 °F	ISO 11403-1 -2
	7.22 GPa	1050 ksi	
	@Strain 1.50 %, Temperature 40.0 °C	@Strain 1.50 %, Temperature 104 °F	ISO 11403-1 -2
	7.661 GPa	1111 ksi	
	@Strain 2.00 %, Temperature 23.0 °C	@Strain 2.00 %, Temperature 73.4 °F	ISO 11403-1 -2
	7.91 GPa	1150 ksi	
	@Strain 1.10 %, Temperature 40.0 °C	@Strain 1.10 %, Temperature 104 °F	ISO 11403-1 -2
	8.50 GPa	1230 ksi	
	@Strain 1.80 %, Temperature 0.000 °C	@Strain 1.80 %, Temperature 32.0 °F	ISO 11403-1 -2
	8.51 GPa	1230 ksi	
	@Strain 1.60 %, Temperature 23.0 °C	@Strain 1.60 %, Temperature 73.4 °F	ISO 11403-1 -2
	8.57 GPa	1240 ksi	
	@Strain 0.700 %, Temperature 40.0 °C	@Strain 0.700 %, Temperature 104 °F	ISO 11403-1 -2
	8.59 GPa	1250 ksi	
	@Strain 2.10 %, Temperature -40.0 °C	@Strain 2.10 %, Temperature -40.0 °F	ISO 11403-1 -2
	9.11 GPa	1320 ksi	
	@Strain 1.70 %, Temperature -40.0 °C	@Strain 1.70 %, Temperature -40.0 °F	ISO 11403-1 -2
	9.21 GPa	1340 ksi	
	@Strain 1.20 %, Temperature 23.0 °C	@Strain 1.20 %, Temperature 73.4 °F	ISO 11403-1 -2
	9.23 GPa	1340 ksi	
	@Strain 1.30 %, Temperature 0.000 °C	@Strain 1.30 %, Temperature 32.0 °F	ISO 11403-1 -2
	9.32 GPa	1350 ksi	
	@Strain 0.100 %, Temperature 40.0 °C	@Strain 0.100 %, Temperature 104 °F	ISO 11403-1 -2

Mechanical Properties	9.59 GPa Metric	1390 ksi English	Comments ISO 11403-1 -2
	@Strain 1.30 %, Temperature -40.0 °C	@Strain 1.30 %, Temperature -40.0 °F	
	9.77 GPa	1420 ksi	ISO 11403-1 -2
	@Strain 0.900 %, Temperature 0.000 °C	@Strain 0.900 %, Temperature 32.0 °F	
	9.98 GPa	1450 ksi	ISO 11403-1 -2
	@Strain 0.700 %, Temperature 23.0 °C	@Strain 0.700 %, Temperature 73.4 °F	
	10.1 GPa	1470 ksi	ISO 11403-1 -2
	@Strain 0.900 %, Temperature -40.0 °C	@Strain 0.900 %, Temperature -40.0 °F	
	10.3 GPa	1490 ksi	ISO 11403-1 -2
	@Strain 0.500 %, Temperature 0.000 °C	@Strain 0.500 %, Temperature 32.0 °F	
	10.45 GPa	1516 ksi	ISO 11403-1 -2
	@Strain 0.100 %, Temperature 23.0 °C	@Strain 0.100 %, Temperature 73.4 °F	
	10.59 GPa	1536 ksi	ISO 11403-1 -2
	@Strain 0.100 %, Temperature 0.000 °C	@Strain 0.100 %, Temperature 32.0 °F	
	11.022 GPa	1598.6 ksi	ISO 11403-1 -2
	@Strain 0.100 %, Temperature -40.0 °C	@Strain 0.100 %, Temperature -40.0 °F	
Charpy Impact Unnotched	5.00 J/cm ²	23.8 ft-lb/in ²	ISO 179/1eU
	4.50 J/cm ²	21.4 ft-lb/in ²	ISO 179/1eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	0.900 J/cm ²	4.28 ft-lb/in ²	ISO 179/1eA
	0.900 J/cm ²	4.28 ft-lb/in ²	ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+15 ohm-cm	>= 1.00e+15 ohm-cm	IEC 60093
Surface Resistance	8.00e+13 ohm	8.00e+13 ohm	IEC 60093

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