

DuPont Performance Polymers Zytel® RS LC1600 BK385 Nylon 1010 (Unverified Data**)

Category : Polymer , Renewable/Recycled Polymer , Thermoplastic , Nylon

Material Notes:

Zytel® RS LC1600 BK385 is a renewable sourced Polyamide 1010 containing a minimum of 60% renewably sourced ingredient by weight. It is flexible, toughened, plasticized, UV and heat stabilized and suitable for multiple extrusion applications. Information provided by DuPont Performance Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Zytel-RS-LC1600-BK385-Nylon-1010-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Density	1.04 g/cc	0.0376 lb/in ³	DAM; ISO 1183
Linear Mold Shrinkage, Flow	0.020 cm/cm	0.020 in/in	DAM; ISO 294-4
Linear Mold Shrinkage, Transverse	0.0090 cm/cm	0.0090 in/in	DAM; ISO 294-4

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	40.0 MPa	5800 psi	50%RH; ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	43.0 MPa	6240 psi	DAM; ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Tensile Stress	0.0300 MPa	4.35 psi	DAM; ISO 11403-1/-2
	@Strain 0.000 %, Temperature 40.0 °C	@Strain 0.000 %, Temperature 104 °F	
	0.0500 MPa	7.25 psi	50%RH; ISO 11403-1/-2
	@Strain 0.000 %, Temperature 40.0 °C	@Strain 0.000 %, Temperature 104 °F	
	0.0600 MPa	8.70 psi	DAM; ISO 11403-1/-2
	@Strain 0.000 %, Temperature 60.0 °C	@Strain 0.000 %, Temperature 140 °F	
	0.0700 MPa	10.2 psi	50%RH; ISO 11403-1/-2
	@Strain 0.000 %, Temperature 23.0 °C	@Strain 0.000 %, Temperature 73.4 °F	
	0.0800 MPa	11.6 psi	50%RH; ISO 11403-1/-2
	@Strain 0.000 %, Temperature 60.0 °C	@Strain 0.000 %, Temperature 140 °F	
	0.0800 MPa	11.6 psi	

Mechanical Properties	Metric	English	Comments
	@Strain 0.000 %, Temperature 90.0 °C	@Strain 0.000 %, Temperature 194 °F	50%RH; ISO 11403-1/-2
	0.0800 MPa	11.6 psi	DAM; ISO 11403-1/-2
	@Strain 0.000 %, Temperature 90.0 °C	@Strain 0.000 %, Temperature 194 °F	
	0.100 MPa	14.5 psi	50%RH; ISO 11403-1/-2
	@Strain 0.000 %, Temperature 120 °C	@Strain 0.000 %, Temperature 248 °F	
	0.100 MPa	14.5 psi	DAM; ISO 11403-1/-2
	@Strain 0.000 %, Temperature 120 °C	@Strain 0.000 %, Temperature 248 °F	
	0.100 MPa	14.5 psi	DAM; ISO 11403-1/-2
	@Strain 0.000 %, Temperature 23.0 °C	@Strain 0.000 %, Temperature 73.4 °F	
	0.130 MPa	18.9 psi	DAM; ISO 11403-1/-2
	@Strain 0.000 %, Temperature 150 °C	@Strain 0.000 %, Temperature 302 °F	
	0.130 MPa	18.9 psi	50%RH; ISO 11403-1/-2
	@Strain 0.000 %, Temperature 150 °C	@Strain 0.000 %, Temperature 302 °F	
	0.150 MPa	21.8 psi	DAM; ISO 11403-1/-2
	@Strain 0.000 %, Temperature -40.0 °C	@Strain 0.000 %, Temperature -40.0 °F	
	0.160 MPa	23.2 psi	DAM; ISO 11403-1/-2
	@Strain 0.000 %, Temperature 0.000 °C	@Strain 0.000 %, Temperature 32.0 °F	
	0.200 MPa	29.0 psi	50%RH; ISO 11403-1/-2
	@Strain 0.000 %, Temperature 0.000 °C	@Strain 0.000 %, Temperature 32.0 °F	
	0.240 MPa	34.8 psi	50%RH; ISO 11403-1/-2
	@Strain 0.000 %, Temperature -40.0 °C	@Strain 0.000 %, Temperature -40.0 °F	
	0.240 MPa	34.8 psi	DAM; ISO 11403-1/-2
	@Strain 0.000 %, Temperature -20.0 °C	@Strain 0.000 %, Temperature -4.00 °F	
	0.270 MPa	39.2 psi	50%RH; ISO 11403-1/-2
	@Strain 0.000 %, Temperature -20.0 °C	@Strain 0.000 %, Temperature -4.00 °F	

Mechanical Properties	Metric MPa	English	Comments
	@Strain 0.0300 %, Temperature -40.0 °C	@Strain 0.0300 %, Temperature -40.0 °F	50%RH; ISO 11403-1/-2
	0.430 MPa	62.4 psi	
	@Strain 0.0200 %, Temperature -40.0 °C	@Strain 0.0200 %, Temperature -40.0 °F	DAM; ISO 11403-1/-2
	0.450 MPa	65.3 psi	
	@Strain 0.240 %, Temperature 120 °C	@Strain 0.240 %, Temperature 248 °F	50%RH; ISO 11403-1/-2
	0.750 MPa	109 psi	
	@Strain 0.250 %, Temperature 60.0 °C	@Strain 0.250 %, Temperature 140 °F	50%RH; ISO 11403-1/-2
	0.900 MPa	131 psi	
	@Strain 0.240 %, Temperature 40.0 °C	@Strain 0.240 %, Temperature 104 °F	50%RH; ISO 11403-1/-2
	0.910 MPa	132 psi	
	@Strain 0.0700 %, Temperature -20.0 °C	@Strain 0.0700 %, Temperature -4.00 °F	50%RH; ISO 11403-1/-2
	0.950 MPa	138 psi	
	@Strain 0.0600 %, Temperature -20.0 °C	@Strain 0.0600 %, Temperature -4.00 °F	DAM; ISO 11403-1/-2
	0.960 MPa	139 psi	
	@Strain 0.250 %, Temperature 40.0 °C	@Strain 0.250 %, Temperature 104 °F	DAM; ISO 11403-1/-2
	1.07 MPa	155 psi	
	@Strain 0.600 %, Temperature 120 °C	@Strain 0.600 %, Temperature 248 °F	DAM; ISO 11403-1/-2
	1.16 MPa	168 psi	
	@Strain 0.0600 %, Temperature -40.0 °C	@Strain 0.0600 %, Temperature -40.0 °F	DAM; ISO 11403-1/-2
	1.26 MPa	183 psi	
	@Strain 0.240 %, Temperature 23.0 °C	@Strain 0.240 %, Temperature 73.4 °F	50%RH; ISO 11403-1/-2
	1.27 MPa	184 psi	
	@Strain 0.0700 %, Temperature -40.0 °C	@Strain 0.0700 %, Temperature -40.0 °F	50%RH; ISO 11403-1/-2
	1.42 MPa	206 psi	
			DAM; ISO 11403-1/-2

Mechanical Properties	@Strain 0.190 %, Metric Temperature 23.0 °C	@Strain 0.190 %, English Temperature 73.4 °F	Comments
	1.81 MPa	263 psi	
	@Strain 0.0900 %, Temperature -40.0 °C	@Strain 0.0900 %, Temperature -40.0 °F	DAM; ISO 11403-1/-2
	1.93 MPa	280 psi	
	@Strain 0.910 %, Temperature 90.0 °C	@Strain 0.910 %, Temperature 194 °F	50%RH; ISO 11403-1/-2
	2.07 MPa	300 psi	
	@Strain 0.100 %, Temperature -40.0 °C	@Strain 0.100 %, Temperature -40.0 °F	50%RH; ISO 11403-1/-2
	2.08 MPa	302 psi	
	@Strain 0.180 %, Temperature 0.000 °C	@Strain 0.180 %, Temperature 32.0 °F	50%RH; ISO 11403-1/-2
	2.13 MPa	309 psi	
	@Strain 0.150 %, Temperature -20.0 °C	@Strain 0.150 %, Temperature -4.00 °F	50%RH; ISO 11403-1/-2
	2.21 MPa	321 psi	
	@Strain 0.130 %, Temperature -20.0 °C	@Strain 0.130 %, Temperature -4.00 °F	DAM; ISO 11403-1/-2
	2.23 MPa	323 psi	
	@Strain 0.180 %, Temperature 0.000 °C	@Strain 0.180 %, Temperature 32.0 °F	DAM; ISO 11403-1/-2
	2.60 MPa	377 psi	
	@Strain 0.130 %, Temperature -40.0 °C	@Strain 0.130 %, Temperature -40.0 °F	DAM; ISO 11403-1/-2
	2.87 MPa	416 psi	
	@Strain 0.130 %, Temperature -40.0 °C	@Strain 0.130 %, Temperature -40.0 °F	50%RH; ISO 11403-1/-2
	3.28 MPa	476 psi	
	@Strain 4.15 %, Temperature 150 °C	@Strain 4.15 %, Temperature 302 °F	50%RH; ISO 11403-1/-2
	3.33 MPa	483 psi	
	@Strain 0.160 %, Temperature -40.0 °C	@Strain 0.160 %, Temperature -40.0 °F	DAM; ISO 11403-1/-2
	3.37 MPa	489 psi	
	@Strain 0.220 %, Temperature -20.0 °C	@Strain 0.220 %, Temperature -4.00 °F	50%RH; ISO 11403-1/-2

Mechanical Properties	3.38 MPa Metric	490 psi English	Comments DAM; ISO 11403-1/-2
	@Strain 0.200 %, Temperature -20.0 °C	@Strain 0.200 %, Temperature -4.00 °F	
	3.45 MPa	500 psi	DAM; ISO 11403-1/-2
	@Strain 4.11 %, Temperature 150 °C	@Strain 4.11 %, Temperature 302 °F	
	3.59 MPa	521 psi	DAM; ISO 11403-1/-2
	@Strain 1.28 %, Temperature 60.0 °C	@Strain 1.28 %, Temperature 140 °F	
	3.66 MPa	531 psi	50%RH; ISO 11403-1/-2
	@Strain 0.170 %, Temperature -40.0 °C	@Strain 0.170 %, Temperature -40.0 °F	
	3.99 MPa	579 psi	DAM; ISO 11403-1/-2
	@Strain 0.190 %, Temperature -40.0 °C	@Strain 0.190 %, Temperature -40.0 °F	
	4.41 MPa	640 psi	50%RH; ISO 11403-1/-2
	@Strain 0.200 %, Temperature -40.0 °C	@Strain 0.200 %, Temperature -40.0 °F	
	4.68 MPa	679 psi	DAM; ISO 11403-1/-2
	@Strain 0.210 %, Temperature -40.0 °C	@Strain 0.210 %, Temperature -40.0 °F	
	5.15 MPa	747 psi	50%RH; ISO 11403-1/-2
	@Strain 0.230 %, Temperature -40.0 °C	@Strain 0.230 %, Temperature -40.0 °F	
	5.26 MPa	763 psi	DAM; ISO 11403-1/-2
	@Strain 2.77 %, Temperature 90.0 °C	@Strain 2.77 %, Temperature 194 °F	
	5.37 MPa	779 psi	DAM; ISO 11403-1/-2
	@Strain 0.240 %, Temperature -40.0 °C	@Strain 0.240 %, Temperature -40.0 °F	
	6.13 MPa	889 psi	50%RH; ISO 11403-1/-2
	@Strain 18.49 %, Temperature 150 °C	@Strain 18.49 %, Temperature 302 °F	
	6.43 MPa	933 psi	DAM; ISO 11403-1/-2
	@Strain 18.66 %, Temperature 150 °C	@Strain 18.66 %, Temperature 302 °F	
	6.87 MPa	996 psi	50%RH; ISO 11403-1/-2
	@Strain 34.43 %, Temperature 150 °C	@Strain 34.43 %, Temperature 302 °F	

Mechanical Properties	Metric 7.19 MPa	English 1030 psi	Comments
	@Strain 34.72 %, Temperature 150 °C	@Strain 34.72 %, Temperature 302 °F	DAM; ISO 11403-1/-2
	7.22 MPa @Strain 51.35 %, Temperature 150 °C	1050 psi @Strain 51.35 %, Temperature 302 °F	50%RH; ISO 11403-1/-2
	7.48 MPa @Strain 68.02 %, Temperature 150 °C	1080 psi @Strain 68.02 %, Temperature 302 °F	50%RH; ISO 11403-1/-2

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