



Zytel® RS LC1200 BK385

Zytel® RS LC1200 BK385 is a renewable sourced Polyamide 1010 containing a minimum of 70% renewably sourced ingredient by weight. The material is flexible, toughened, UV and heat stabilized and suitable for multiple extrusion applications.

Property	Test Method	Units	Value	
			DAM	50%RH
Identification				
Resin Identification	ISO 1043		PA1010-HI	
Part Marking Code	ISO 11469		>PA1010-HI<	
Mechanical				
Yield Stress	ISO 527	MPa (kpsi)	38 (5.5)	34 (4.9)
Yield Strain	ISO 527	%	15	36
Stress at Break	ISO 527	MPa (kpsi)	36 (5.2)	41 (5.9)
Strain at Break	ISO 527	%	236	230
Nominal Strain at Break	ISO 527	%	187	209
Tensile Modulus	ISO 527	MPa (kpsi)	1250 (181)	650 (94)
Tensile Stress	ISO 527	MPa (kpsi)		
@ 5% Strain			36 (5.2)	21 (3.0)
@ 10% Strain			37 (5.4)	27 (3.9)
Flexural Modulus	ISO 178	MPa (kpsi)	1100 (160)	
Notched Charpy Impact Strength	ISO 179/1eA	kJ/m ²		
-30°C (-22°F)			21	18
23°C (73°F)			110 (PB)	120 (PB)
Unnotched Charpy Impact Strength	ISO 179/1eU	kJ/m ²		
-30°C (-22°F)			No break	No break
23°C (73°F)			No break	No break

Contact DuPont for Material Safety Data Sheet, general guides and/or additional information about ventilation, handling, purging, drying, etc.
 ISO Mechanical properties measured at 4.0mm, ISO Electrical properties measured at 2.0mm, and all ASTM properties measured at 3.2mm.
 Test temperatures are 23°C unless otherwise stated.

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 * DuPont™ Renewably Sourced™ Materials contain a minimum of 20% renewably sourced ingredient by weight.

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Product Information

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Property	Test Method	Units	Value	
			DAM	50%RH
Thermal				
Deflection Temperature 0.45MPa	ISO 75-1/-2	°C (°F)	75 (167)	
Melting Temperature 10°C/min	ISO 11357-1/-3	°C (°F)	200 (392)	
Melt Viscosity 220°C (428°F), 1000s-1	ISO 11443	Pa s (cp)	500 (500000)	
Other				
Density	ISO 1183	kg/m ³ (g/cm ³)	1030 (1.03)	
Molding Shrinkage Normal	ISO 294-4	%	0.71	
Parallel			2	
Processing - Extrusion				
Melt Temperature Range		°C (°F)	215-225 (419-437)	
Melt Temperature Optimum		°C (°F)	220 (428)	
Drying Time, Dehumidified Dryer		h	4-6	
Drying Temperature		°C (°F)	80 (176)	
Processing Moisture Content		%	<0.05	

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