

DuPont Performance Polymers Zytel® RS LC1201 BK040A Nylon 1010 (Unverified Data**)

Category : Polymer , Thermoplastic , Nylon

Material Notes:

Toughened Renewably Sourced Medium Viscosity Polyamide 1010 Developed for Extrusion Zytel RS LC1201 BK040A is a renewably sourced polyamide 1010 resin containing a minimum of 85% renewably sourced ingredient by weight. It is a flexible medium viscosityInformation provided by DuPont Performance Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Zytel-RS-LC1201-BK040A-Nylon-1010-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Density	1.04 g/cc	0.0376 lb/in ³	DAM; ISO 1183
Viscosity	215000 cP @Temperature 250 °C	215000 cP @Temperature 482 °F	DAM; @ 1000 sec-1; ISO 11443
Viscosity Test	108 cm ³ /g	108 cm ³ /g	DAM; Sulfuric acid; ISO 307 1157 1628
Linear Mold Shrinkage, Flow	0.012 cm/cm	0.012 in/in	DAM; ISO 294-4 2577
Linear Mold Shrinkage, Transverse	0.010 cm/cm	0.010 in/in	DAM; ISO 294-4 2577

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	40.0 MPa	5800 psi	50%RH; ISO 527-1/-2
	45.0 MPa	6530 psi	DAM; ISO 527-1/-2
Elongation at Break	>= 50 %	>= 50 %	DAM; Nominal; ISO 527-1/-2
	>= 50 %	>= 50 %	50%RH; Nominal; ISO 527-1/-2
Elongation at Yield	5.0 %	5.0 %	DAM; ISO 527-1/-2
	30 %	30 %	50%RH; ISO 527-1/-2
Tensile Modulus	0.930 GPa	135 ksi	50%RH; ISO 527-1/-2
	1.50 GPa	218 ksi	DAM; ISO 527-1/-2
Izod Impact, Notched (ISO)	13.0 kJ/m ²	6.19 ft-lb/in ²	DAM; ISO 180/1A
	25.0 kJ/m ²	11.9 ft-lb/in ²	50%RH; ISO 180/1A
	8.00 kJ/m ² @Temperature -30.0 °C	3.81 ft-lb/in ² @Temperature -22.0 °F	50%RH; ISO 180/1A

Mechanical Properties	9.00 kJ/m ² Metric	4.28 ft-lb/in ² English	Comments DAM; ISO 179/1A
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact Unnotched	NB	NB	DAM; ISO 179/1eU
	NB	NB	50%RH; ISO 179/1eU
Charpy Impact, Notched	1.60 J/cm ²	7.61 ft-lb/in ²	DAM; ISO 179/1eA
	2.50 J/cm ²	11.9 ft-lb/in ²	50%RH; ISO 179/1eA
	0.800 J/cm ²	3.81 ft-lb/in ²	50%RH; ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	1.10 J/cm ²	5.23 ft-lb/in ²	DAM; ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	

Thermal Properties	Metric	English	Comments
Melting Point	179 °C	354 °F	DAM; 10°C/min; ISO 11357-1/-2
	201 °C	394 °F	DAM; 10°C/min; ISO 11357-1/-3
Deflection Temperature at 0.46 MPa (66 psi)	85.0 °C	185 °F	DAM; ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	47.0 °C	117 °F	DAM; ISO 75-1/-2
Flammability, UL94	HB	HB	DAM; IEC 60695-11-10
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	HB	HB	DAM; IEC 60695-11-10
	@Thickness 3.00 mm	@Thickness 0.118 in	

Descriptive Properties	Value	Comments
Delivery Form	Pellets	
Part Marking Code	>PA1010-I<	ISO 11469
Processing	Calandring	
	Casting	
	Coatable	
	Other Extrusion	
	Profile Extrusion	
	Sheet Extrusion	

Descriptive Properties	Value	Comments
Regional Availability	Asia Pacific	
	Europe	
	Global	
	Near East/Africa	
	North America	
	South and Central America	
Resin Identification	PA1010-I	ISO 1043
Special Characteristics	Heat stabilised or stable to heat	

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