

DuPont Performance Polymers Zytel® RS LC3030 NC010 Nylon 610 (Unverified Data**)

Category : Polymer , Renewable/Recycled Polymer , Thermoplastic , Nylon , Nylon 610

Material Notes:

Zytel® RS LC3030 NC010 is a renewable sourced polyamide 610 containing a minimum of 60% renewably sourced ingredient by weight. It is an unreinforced, low viscosity grade, developed for extrusion applications (filaments). Information provided by DuPont Performance Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Zytel-RS-LC3030-NC010-Nylon-610-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Density	1.08 g/cc	0.0390 lb/in³	DAM; ISO 1183

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	62.0 MPa	8990 psi	DAM; ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Tensile Modulus	2.25 GPa	326 ksi	DAM; ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Flexural Modulus	2.10 GPa	305 ksi	DAM; ISO 178
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Izod Impact, Notched (ISO)	5.00 kJ/m²	2.38 ft-lb/in²	DAM; ISO 180/1A
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	0.450 J/cm²	2.14 ft-lb/in²	DAM; ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
Melting Point	225 °C	437 °F	10°C/min; DAM; ISO 11357-1/-3
Deflection Temperature at 1.8 MPa (264 psi)	55.0 °C	131 °F	DAM; ISO 75-1/-2

Processing Properties	Metric	English	Comments
Melt Temperature	250 °C	482 °F	DAM; Optimum
	230 - 290 °C	446 - 554 °F	DAM
Mold Temperature	70.0 °C	158 °F	DAM; optimum

Processing Properties	50.0 - 90.0 °C Metric	122 - 194 °F English	DAM Comments
Drying Temperature	80.0 °C	176 °F	DAM
Dry Time	2.00 - 4.00 hour	2.00 - 4.00 hour	DAM
Moisture Content	0.15 %	0.15 %	DAM

Descriptive Properties	Value	Comments
Appearance	Natural Color	DAM
Drying Recommended	Yes, if moisture content of resin exceeds recommended level	DAM
Features	Chemical Resistance, Good	DAM
	Dimensional Stability, Good	DAM
	Moisture Absorption, Low	DAM
	Renewable Resource Content	DAM
Forms	Pellets	DAM
Generic	PA610	DAM
Material Status	Preliminary Data	DAM
Part Marking Code	>PA610<	ISO 11469; DAM
Polymer Family	Polyamide	DAM
Polymer Type	PA610	DAM
Processing Method	Injection Molding	DAM
Product Category	Renewably Sourced Resins	DAM
	Toughened Resins	DAM
	Unreinforced Resins	DAM
Region Available - Global	Yes	DAM
Resin Identification	PA610	ISO 1043; DAM
RoHS Compliance	Contact Manufacturer	DAM
Uses	Automotive Applications	DAM
	Consumer Applications	DAM
	Industrial Applications	DAM

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