

DuPont Performance Polymers Zytel® RS 3261TL NC010 Nylon 610 (Unverified Data**)

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

Material Notes:

Zytel® RS 3261TL NC010 is a renewably sourced polyamide 610 resin containing a minimum of 47% renewably sourced ingredient by weight. It is an unreinforced and toughened resin for injection molding applications. Information provided by DuPont Performance Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Zytel-RS-3261TL-NC010-Nylon-610-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Density	1.03 g/cc	0.0372 lb/in ³	DAM; ISO 1183
Linear Mold Shrinkage, Flow	0.018 cm/cm	0.018 in/in	DAM; ISO 294-4
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Linear Mold Shrinkage, Transverse	0.012 cm/cm	0.012 in/in	DAM; ISO 294-4
	@Thickness 2.00 mm	@Thickness 0.0787 in	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	32.0 MPa	4640 psi	50%RH; ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	40.0 MPa	5800 psi	DAM; ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Elongation at Break	175 %	175 %	DAM; nominal; ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	200 %	200 %	50%RH; nominal; ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	250 %	250 %	50mm/min; 50%RH; ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	250 %	250 %	50mm/min; DAM; ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Elongation at Yield	5.5 %	5.5 %	DAM; ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	30 %	30 %	50%RH; ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Mechanical Properties	Metric ^{MPa}	English	Comments
Tensile Modulus	@Temperature 23.0 °C	@Temperature 73.4 °F	50%RH; ISO 527
	1.45 GPa	210 ksi	DAM; ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Izod Impact, Notched (ISO)	70.0 kJ/m ²	33.3 ft-lb/in ²	partial break; DAM; ISO 180/1A
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	80.0 kJ/m ²	38.1 ft-lb/in ²	partial break; 50%RH; ISO 180/1A
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact Unnotched	NB	NB	DAM; ISO 179/1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	NB	NB	50%RH; ISO 179/1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	7.50 J/cm ²	35.7 ft-lb/in ²	partial break; DAM; ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	9.50 J/cm ²	45.2 ft-lb/in ²	partial break; 50%RH; ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
Melting Point	223 °C	433 °F	10°C/min; DAM; ISO 11357-1/-3
Deflection Temperature at 0.46 MPa (66 psi)	100 °C	212 °F	DAM; ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	50.0 °C	122 °F	DAM; ISO 75-1/-2

Processing Properties	Metric	English	Comments
Melt Temperature	260 °C	500 °F	DAM; Optimum; Injection Molding
	250 - 270 °C	482 - 518 °F	DAM; Injection Molding
Mold Temperature	40.0 - 80.0 °C	104 - 176 °F	DAM; Injection Molding
	70.0 °C	158 °F	DAM; optimum; Injection Molding
Drying Temperature	80.0 °C	176 °F	DAM; Injection Molding
Dry Time	4.00 - 6.00 hour	4.00 - 6.00 hour	DAM; Injection Molding
Moisture Content	<= 0.10 %	<= 0.10 %	DAM; Injection Molding

Descriptive Properties	Value	Comments
Additive	Lubricant	DAM
Appearance	Natural Color	DAM
Features	Lubricated	DAM
	Renewable Resource Content	
	Unreinforced	DAM
	Unreinforced	DAM
Forms	Pellets	DAM
Generic	PA610-I	DAM
Material Status	Preliminary Data	DAM
Part Marking Code	>PA610-I<	ISO 11469; 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-I	ISO 1043; DAM
RoHS Compliance	Contact Manufacturer	DAM

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