

DuPont Performance Polymers Zytel® RS 3261THSL BK041A Nylon 610 (Unverified Data**)

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

Material Notes:

Zytel® RS 3261THSL BK041A is a renewably sourced polyamide 610 resin containing a minimum of 47% renewably sourced ingredient by weight. It is a black, unreinforced, toughened and heat stabilised 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-3261THSL-BK041A-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	0.015 cm/cm @Thickness 2.00 mm	0.015 in/in @Thickness 0.0787 in	DAM; ISO 294-4
Linear Mold Shrinkage, Transverse	0.012 cm/cm @Thickness 2.00 mm	0.012 in/in @Thickness 0.0787 in	DAM; ISO 294-4

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	32.0 MPa @Temperature 23.0 °C	4640 psi @Temperature 73.4 °F	50%RH; ISO 527
	40.0 MPa @Temperature 23.0 °C	5800 psi @Temperature 73.4 °F	DAM; ISO 527
Elongation at Break	35 % @Temperature 23.0 °C	35 % @Temperature 73.4 °F	50mm/min; DAM; ISO 527
	65 % @Temperature 23.0 °C	65 % @Temperature 73.4 °F	DAM; nominal; ISO 527
	200 % @Temperature 23.0 °C	200 % @Temperature 73.4 °F	50%RH; nominal; ISO 527
	250 % @Temperature 23.0 °C	250 % @Temperature 73.4 °F	50mm/min; 50%RH; ISO 527
Elongation at Yield	5.0 % @Temperature 23.0 °C	5.0 % @Temperature 73.4 °F	DAM; ISO 527
	30 %	30 %	

Mechanical Properties	Metric @ Temperature 23.0 °C	English @ Temperature 73.4 °F	50%RH; ISO 527 Comments
Tensile Modulus	0.800 GPa	116 ksi	50%RH; ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	1.50 GPa	218 ksi	DAM; ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Izod Impact, Notched (ISO)	65.0 kJ/m²	30.9 ft-lb/in²	partial break; DAM; ISO 180/1A
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	80.0 kJ/m²	38.1 ft-lb/in²	partial break; 50%RH; ISO 180/1A
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact Unnotched	NB	NB	50%RH; ISO 179/1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	NB	NB	DAM; ISO 179/1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	7.00 J/cm²	33.3 ft-lb/in²	partial break; DAM; ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	9.50 J/cm²	45.2 ft-lb/in²	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)	110 °C	230 °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

Processing Properties	Metric 	English 	Comments 
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Descriptive Properties	Value	Comments
Features	Renewable Resource Content	
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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