

DuPont Performance Polymers Zytel® RS 3061HSL BK039A Nylon 610 (Unverified Data**)

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

Material Notes:

Zytel® RS 3061HSL BK039A is a renewably sourced polyamide 610 resin containing a minimum of 60% renewably sourced ingredient by weight. It is an unreinforced, heat stabilized, lubricated black grade developed 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-3061HSL-BK039A-Nylon-610-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Density	1.08 g/cc	0.0390 lb/in ³	DAM; ISO 1183
Linear Mold Shrinkage, Flow	0.012 cm/cm	0.012 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	50.0 MPa	7250 psi	50%RH; ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	65.0 MPa	9430 psi	DAM; ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Elongation at Break	40 %	40 %	DAM; nominal; ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	80 %	80 %	50mm/min; DAM; ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	130 %	130 %	50%RH; nominal; ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	200 %	200 %	50mm/min; 50%RH; ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Elongation at Yield	4.5 %	4.5 %	DAM; ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	25 %	25 %	

Mechanical Properties	Metric @ Temperature 23.0 °C	English @ Temperature 73.4 °F	50%RH; ISO 527 Comments
Tensile Modulus	1.30 GPa	189 ksi	50%RH; ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	2.20 GPa	319 ksi	DAM; ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Izod Impact, Notched (ISO)	4.50 kJ/m²	2.14 ft-lb/in²	DAM; ISO 180/1A
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	9.00 kJ/m²	4.28 ft-lb/in²	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	0.500 J/cm²	2.38 ft-lb/in²	DAM; ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	1.10 J/cm²	5.23 ft-lb/in²	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)	140 °C	284 °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	250 - 270 °C	482 - 518 °F	DAM; Injection Molding
	260 °C	500 °F	DAM; Optimum; 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
Appearance	Black Color	DAM
Features	Renewable Resource Content	
Forms	Pellets	DAM
Generic	PA610	DAM
Material Status	Preliminary Data	DAM
Part Marking Code	>PA610<	ISO 11469; DAM
Processing Method	Injection Molding	DAM
Product Category	Unreinforced Resins	DAM
Region Available - Global	Yes	DAM
Resin Identification	PA610	ISO 1043; DAM
RoHS Compliance	Contact Manufacturer	DAM

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