

## DuPont Performance Polymers Zytel® RS 30G30HSL BK038A Nylon 610 (Unverified Data\*\*)

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

### Material Notes:

Zytel® RS 30G30HSL BK038A is a lubricated, heat stabilized, 30% glass fiber reinforced black polyamide 610 resin containing a minimum of 40% renewably sourced ingredients by weight (60% based on polymer). It was initially coded FE270063. Information provided by DuPont Performance Polymers

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_DuPont-Performance-Polymers-Zytel-RS-30G30HSL-BK038A-Nylon-610-nbspUnverified-Data.php](http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Zytel-RS-30G30HSL-BK038A-Nylon-610-nbspUnverified-Data.php)

Physical Properties	Metric	English	Comments
Density	1.32 g/cc	0.0477 lb/in <sup>3</sup>	DAM; ISO 1183
Filler Content	30 %	30 %	DAM
Linear Mold Shrinkage, Flow	0.0020 cm/cm @Thickness 2.00 mm	0.0020 in/in @Thickness 0.0787 in	DAM; ISO 294-4
Linear Mold Shrinkage, Transverse	0.0070 cm/cm @Thickness 2.00 mm	0.0070 in/in @Thickness 0.0787 in	DAM; ISO 294-4

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	130 MPa @Temperature 23.0 °C	18900 psi @Temperature 73.4 °F	50%RH; ISO 527
	170 MPa @Temperature 23.0 °C	24700 psi @Temperature 73.4 °F	DAM; ISO 527
Elongation at Break	4.5 % @Temperature 23.0 °C	4.5 % @Temperature 73.4 °F	DAM; ISO 527
	6.5 % @Temperature 23.0 °C	6.5 % @Temperature 73.4 °F	50%RH; ISO 527
Tensile Modulus	6.80 GPa @Temperature 23.0 °C	986 ksi @Temperature 73.4 °F	50%RH; ISO 527
	8.50 GPa @Temperature 23.0 °C	1230 ksi @Temperature 73.4 °F	DAM; ISO 527
Izod Impact, Notched (ISO)	15.0 kJ/m <sup>2</sup> @Temperature 23.0 °C	7.14 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	DAM; ISO 180/1A

Mechanical Properties	Metric	English	Comments
	@Temperature 23.0 °C	@Temperature 73.4 °F	50%RH; ISO 180/1A
Charpy Impact Unnotched	9.50 J/cm <sup>2</sup>	45.2 ft-lb/in <sup>2</sup>	DAM; ISO 179/1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	9.50 J/cm <sup>2</sup>	45.2 ft-lb/in <sup>2</sup>	50%RH; ISO 179/1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	1.50 J/cm <sup>2</sup>	7.14 ft-lb/in <sup>2</sup>	DAM; ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	1.50 J/cm <sup>2</sup>	7.14 ft-lb/in <sup>2</sup>	50%RH; ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
Melting Point	224 °C	435 °F	10°C/min; DAM; ISO 11357-1/-3
Deflection Temperature at 1.8 MPa (264 psi)	200 °C	392 °F	DAM; ISO 75-1/-2

Processing Properties	Metric	English	Comments
Melt Temperature	280 °C	536 °F	DAM; Optimum
	260 - 300 °C	500 - 572 °F	DAM
Mold Temperature	80.0 °C	176 °F	DAM; optimum
	70.0 - 90.0 °C	158 - 194 °F	DAM
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	Black Color	DAM
Features	Renewable Resource Content	
Filler	Glass Reinforced	DAM
Forms	Pellets	DAM
Generic	Nylon 610	DAM

<b>Material Status</b> Descriptive Properties	<b>Preliminary Data</b> Value	<b>DAM</b> Comments
Part Marking Code	>PA610-GF30<	ISO 11469; DAM
Processing Method	Injection Molding	DAM
Product Category	Glass Reinforced Resins	DAM
	Renewably Sourced Resins	DAM
Region Available - Global	Yes	DAM
Resin Identification	PA610-GF30	ISO 1043; DAM
RoHS Compliance	Contact Manufacturer	DAM

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