

DuPont Performance Polymers Zytel® RS 30G30L NC010 Nylon 610 (Unverified Data**)

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

Material Notes:

Zytel® RS 30G30L NC010 is a lubricated, 30% glass fiber reinforced polyamide 610 resin containing a minimum of 40% renewably sourced ingredients by weight (60% based on polymer only). 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-30G30L-NC010-Nylon-610-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Density	1.31 g/cc	0.0473 lb/in ³	DAM; ISO 1183
Filler Content	30 %	30 %	DAM
Linear Mold Shrinkage, Flow	0.0020 cm/cm	0.0020 in/in	DAM; ISO 294-4
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Linear Mold Shrinkage, Transverse	0.0070 cm/cm	0.0070 in/in	DAM; ISO 294-4
	@Thickness 2.00 mm	@Thickness 0.0787 in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	125 MPa	18100 psi	50%RH; ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	160 MPa	23200 psi	DAM; ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Elongation at Break	5.0 %	5.0 %	DAM; ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	7.0 %	7.0 %	50%RH; ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Tensile Modulus	6.60 GPa	957 ksi	50%RH; ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	8.30 GPa	1200 ksi	DAM; ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Izod Impact, Notched (ISO)	16.0 kJ/m ²	7.61 ft-lb/in ²	DAM; ISO 180/1A
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	17.0 kJ/m ²	8.09 ft-lb/in ²	

Mechanical Properties	Metric @ Temperature 23.0 °C	English @ Temperature 73.4 °F	50%RH; ISO 180/1A Comments
Charpy Impact Unnotched	9.50 J/cm²	45.2 ft-lb/in²	DAM; ISO 179/1eU
	@ Temperature 23.0 °C	@ Temperature 73.4 °F	
	9.50 J/cm²	45.2 ft-lb/in²	50%RH; ISO 179/1eU
	@ Temperature 23.0 °C	@ Temperature 73.4 °F	
Charpy Impact, Notched	1.65 J/cm²	7.85 ft-lb/in²	50%RH; ISO 179/1eA
	@ Temperature 23.0 °C	@ Temperature 73.4 °F	
	1.65 J/cm²	7.85 ft-lb/in²	DAM; 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	Natural Color	DAM
Features	Renewable Resource Content	
Filler	Glass Reinforced	DAM
Forms	Pellets	DAM
Generic	Nylon 610	DAM
Material Status	Preliminary Data	DAM

Descriptive Properties	Value	Comments
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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