

DuPont Performance Polymers Zytel® LC6210 BK010 Nylon 612 (Unverified Data**)

Category : Polymer , Thermoplastic , Nylon , Nylon 612

Material Notes:

Zytel® LC6210 BK010 is a highly toughened, heat stabilized polyamide 612 for extrusion, blow molding or processing by other techniques requiring high melt viscosity. It was previously coded Zytel® FE240012 BK010. Information provided by DuPont Performance Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Zytel-LC6210-BK010-Nylon-612-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Density	1.01 g/cc	0.0365 lb/in ³	DAM; ISO 1183
Linear Mold Shrinkage, Flow	0.026 cm/cm	0.026 in/in	DAM; ISO 294-4
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Linear Mold Shrinkage, Transverse	0.011 cm/cm	0.011 in/in	DAM; ISO 294-4
	@Thickness 2.00 mm	@Thickness 0.0787 in	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	29.0 MPa	4210 psi	50%RH; ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	32.0 MPa	4640 psi	DAM; ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Elongation at Break	>= 50 %	>= 50 %	DAM; nominal; ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	90 %	90 %	DAM; nominal; ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	100 %	100 %	50mm/min; DAM; ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	230 %	230 %	50%RH; nominal; ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	285 %	285 %	50mm/min; 50%RH; ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Elongation at Yield	12 %	12 %	DAM; ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Mechanical Properties	Metric	English	Comments
	@Temperature 23.0 °C	@Temperature 73.4 °F	50%RH; ISO 527
Tensile Modulus	0.750 GPa	109 ksi	50%RH; ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	1.10 GPa	160 ksi	DAM; ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	1.20 J/cm ²	5.71 ft-lb/in ²	50%RH; ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	1.30 J/cm ²	6.19 ft-lb/in ²	DAM; ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	3.50 J/cm ²	16.7 ft-lb/in ²	DAM; ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	8.00 J/cm ²	38.1 ft-lb/in ²	50%RH; ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
Melting Point	216 °C	421 °F	10°C/min; DAM; ISO 11357-1/-3
Deflection Temperature at 0.46 MPa (66 psi)	83.0 °C	181 °F	DAM; ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	47.0 °C	117 °F	DAM; ISO 75-1/-2

Processing Properties	Metric	English	Comments
Melt Temperature	240 - 250 °C	464 - 482 °F	DAM; Extrusion
Drying Temperature	80.0 °C	176 °F	DAM; Extrusion
Dry Time	3.00 hour	3.00 hour	DAM; Extrusion
Moisture Content	<= 0.030 %	<= 0.030 %	DAM; Extrusion

Descriptive Properties	Value	Comments
Appearance	Black Color	DAM
Forms	Pellets	DAM
Generic	Nylon 612	DAM

Material Status Descriptive Properties	Preliminary Data Value	DAM Comments
Part Marking Code	>PA612-HI<	ISO 11469; DAM
Processing Method	Blow Moldable	DAM
	Extrusion	DAM
Product Category	Blow Moldable Resins	DAM
	Extrusion Resins	DAM
	Toughened Resins	DAM
Region Available - Global	Yes	DAM
Resin Identification	PA612-HI	ISO 1043; DAM
RoHS Compliance	Contact Manufacturer	DAM

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