

DuPont Performance Polymers Zytel® 79G13HSL BK039 Nylon 66 (Unverified Data**)

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

13% Glass Reinforced Toughened Heat Stabilized Polyamide 66 Zytel 79G13HSL BK039 is a 13 % glass reinforced heat stabilized lubricated slightly toughened black polyamide 66 for injection molding. It has improved impact resistance. Information provided by DuPont Performance Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Zytel-79G13HSL-BK039-Nylon-66-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Density	1.21 g/cc	0.0437 lb/in ³	DAM; ISO 1183
Linear Mold Shrinkage, Flow	0.0050 cm/cm	0.0050 in/in	DAM; ISO 294-4 2577
Linear Mold Shrinkage, Transverse	0.0080 cm/cm	0.0080 in/in	DAM; ISO 294-4 2577

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	67.0 MPa	9720 psi	50%RH; ISO 527-1/-2
	115 MPa	16700 psi	DAM; ISO 527-1/-2
Elongation at Break	4.0 %	4.0 %	DAM; ISO 527-1/-2
	10 %	10 %	50%RH; ISO 527-1/-2
Tensile Modulus	3.70 GPa	537 ksi	50%RH; ISO 527-1/-2
	5.10 GPa	740 ksi	DAM; ISO 527-1/-2
Shear Modulus	0.322 GPa	46.7 ksi	DAM; Dynamic; ISO 11403-1 -2
	@Temperature 150 °C	@Temperature 302 °F	
	0.370 GPa	53.7 ksi	DAM; Dynamic; ISO 11403-1 -2
	@Temperature 110 °C	@Temperature 230 °F	
	0.6904 GPa	100.1 ksi	DAM; Dynamic; ISO 11403-1 -2
	@Temperature 60.0 °C	@Temperature 140 °F	
	1.2731 GPa	184.65 ksi	DAM; Dynamic; ISO 11403-1 -2
	@Temperature 10.0 °C	@Temperature 50.0 °F	
	1.3579 GPa	196.95 ksi	DAM; Dynamic; ISO 11403-1 -2
	@Temperature -20.0 °C	@Temperature -4.00 °F	

Mechanical Properties	1.4698 GPa Metric	213.18 ksi English	Comments DAM, Dynamic; ISO 11403-1 -2
	@Temperature -50.0 °C	@Temperature -58.0 °F	
Izod Impact, Notched (ISO)	7.50 kJ/m²	3.57 ft-lb/in²	DAM; ISO 180/1A
	10.0 kJ/m²	4.76 ft-lb/in²	50%RH; ISO 180/1A
Charpy Impact Unnotched	5.90 J/cm²	28.1 ft-lb/in²	50%RH; ISO 179/1eU
	6.70 J/cm²	31.9 ft-lb/in²	DAM; ISO 179/1eU
	5.40 J/cm²	25.7 ft-lb/in²	50%RH; ISO 179/1eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	5.90 J/cm²	28.1 ft-lb/in²	DAM; ISO 179/1eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	0.800 J/cm²	3.81 ft-lb/in²	DAM; ISO 179/1eA
	1.20 J/cm²	5.71 ft-lb/in²	50%RH; ISO 179/1eA
	0.600 J/cm²	2.86 ft-lb/in²	50%RH; ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	0.600 J/cm²	2.86 ft-lb/in²	DAM; ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	

Thermal Properties	Metric	English	Comments
Melting Point	262 °C	504 °F	DAM; 10°C/min; ISO 11357-1/-3
Deflection Temperature at 0.46 MPa (66 psi)	260 °C	500 °F	DAM; ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	240 °C	464 °F	DAM; ISO 75-1/-2
Flammability, UL94	HB	HB	DAM; IEC 60695-11-10
	@Thickness 0.800 mm	@Thickness 0.0315 in	
	HB	HB	DAM; IEC 60695-11-10
	@Thickness 1.50 mm	@Thickness 0.0591 in	
Flame Spread	24 mm/min	0.94 in/min	ISO 3795 (FMVSS 302)
	@Thickness 1.00 mm	@Thickness 0.0394 in	

Descriptive Properties	Value	Comments
Emission of organic compounds	13 µgC/g	VDA 277

Odour Descriptive Properties	class 4 Value	VDA 270 Comments
Processing	Injection Moulding	
Regional Availability	Europe	
	Near East/Africa	
Special Characteristics	Heat stabilised or stable to heat	
UL recognition	UL	DAM

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China