

Honeywell Aegis™ PL56HS High Viscosity, Heat Stabilized, Flexible Nylon 6/66 Copolymer (discontinued **)

Category : Polymer , Thermoplastic , Nylon , Nylon 6/66 , Nylon 66/6, Unreinforced

Material Notes:

Description: Aegis PL56HS is a high viscosity, heat stabilized, flexible nylon 6/66 copolymer. It possesses a balance of flexibility, toughness and abrasion resistance. Combined with its high melt viscosity and optimized crystallization properties, this formulation has been tailored to meet the demanding process behavior requirements of larger diameter extruded profiles. Chemical resistance is excellent to greases, oils and hydrocarbons. Applications: Used in extruded profile applications. Information provided by Honeywell.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Honeywell-Aegis-PL56HS-High-Viscosity-Heat-Stabilized-Flexible-Nylon-666-Copolymer-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.13 g/cc	1.13 g/cc	ASTM D792
Maximum Moisture Content	0.0010	0.0010	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	50.0 MPa	7250 psi	ASTM D638
Elongation at Break	>= 100 %	>= 100 %	ASTM D638
Flexural Strength	50.0 MPa	7250 psi	ASTM D790
Flexural Modulus	1.24 GPa	180 ksi	ASTM D790
Izod Impact, Notched	0.910 J/cm	1.70 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Melting Point	220 °C	428 °F	ASTM D3418
Deflection Temperature at 1.8 MPa (264 psi)	60.0 °C	140 °F	ASTM D648

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	230 - 250 °C	446 - 482 °F	
Middle Barrel Temperature	240 - 255 °C	464 - 491 °F	
Front Barrel Temperature	230 - 250 °C	446 - 482 °F	
Die Temperature	230 - 245 °C	446 - 473 °F	
Melt Temperature	250 - 260 °C	482 - 500 °F	

Processing Properties

Metric 220 - 245 °C

English 415 - 473 °F

Comments

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