

Honeywell Aegis™ PL165HS 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 PL165HS 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-PL165HS-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	40.0 MPa	5800 psi	ASTM D638
Elongation at Break	>= 100 %	>= 100 %	ASTM D638
Flexural Strength	25.0 MPa	3630 psi	ASTM D790
Flexural Modulus	0.827 GPa	120 ksi	ASTM D790

Thermal Properties	Metric	English	Comments
Melting Point	220 °C	428 °F	ASTM D3418
Deflection Temperature at 1.8 MPa (264 psi)	40.0 °C	104 °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	
Head Temperature	230 - 245 °C	446 - 473 °F	

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