

BASF Nypel® 2351 HS BK PA6 (Dry)

Category : Polymer , Renewable/Recycled Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, Unreinforced

Material Notes:

Description: Nypel® 2351 HS BK is a heat stabilized, pigmented black, impact modified PA6 extrusion grade compound. Quality and performance are combines at a lower cost. It is based on recycled PA6 feedstocks. It possesses a balance of performance properties including low flex modulus and toughness. The heat stabilizer system extends its retention of properties at elevated temperatures.

Application: Nypel® 2351 HS BK is generally recommended for applications such as convoluted and emission tubing, cable jacketing and other types of automotive tubing.

Information provided by BASF

Order this product through the following link:

http://www.lookpolymers.com/polymer_BASF-Nypel-2351-HS-BK-PA6-Dry.php

Physical Properties	Metric	English	Comments
Density	1.09 g/cc	0.0394 lb/in³	ISO 1183

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	35.0 MPa	5080 psi	ISO 527
Elongation at Break	>= 50 %	>= 50 %	Nominal; ISO 527
Elongation at Yield	20 %	20 %	ISO 527
Tensile Modulus	1.20 GPa	174 ksi	ISO 527
Flexural Strength	30.0 MPa	4350 psi	ISO 178
Flexural Modulus	0.920 GPa	133 ksi	ISO 178
Izod Impact, Notched (ISO)	4.50 kJ/m²	2.14 ft-lb/in²	ISO 180
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	13.0 kJ/m²	6.19 ft-lb/in²	ISO 180
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	0.700 J/cm²	3.33 ft-lb/in²	ISO 179
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	1.50 J/cm²	7.14 ft-lb/in²	ISO 179
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
Melting Point	220 °C	428 °F	ISO 3146
Deflection Temperature at 1.8 MPa (264 psi)	42.0 °C	108 °F	ISO 75

Thermal Properties	Metric	English	Comments
Processing Properties	Metric	English	Comments
Zone 1	230 - 250 °C	446 - 482 °F	Rear
Zone 2	240 - 255 °C	464 - 491 °F	Middle
Zone 3	230 - 250 °C	446 - 482 °F	Front
Zone 4	230 - 245 °C	446 - 473 °F	Head
Zone 5	230 - 245 °C	446 - 473 °F	Head
Die Temperature	230 - 245 °C	446 - 473 °F	
Melt Temperature	250 - 260 °C	482 - 500 °F	
Dry Time	2 - 4 hour	2 - 4 hour	
Moisture Content	0.10 %	0.10 %	

Descriptive Properties	Value	Comments
Color	Black	
Commercial Status	North America	

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