

BASF Neopolen® P 9270 0.1 g/cc Core density; Expanded Polypropylene (Europe)

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene, Foamed

Material Notes:

Description: Neopolen® P 9270 is expanded Polypropylene supplied in the form of beads. The cells are largely closed. Physical properties of moldings made from Neopolen® P 9270. Note: In order to measure the physical properties, parts with dimensions 300x200x60 mm were molded on a machine typical for the EPP industry under standard conditions. The properties can vary depending on part geometry and processing parameters. Information provided by BASF

Order this product through the following link:

http://www.lookpolymers.com/polymer_BASF-Neopolen-P-9270-01-gcc-Core-density-Expanded-Polypropylene-Europe.php

Physical Properties	Metric	English	Comments
Bulk Density	0.0630 - 0.0770 g/cc	0.00228 - 0.00278 lb/in³	
Density	0.0100 g/cc	0.000361 lb/in³	ISO 845
Water Absorption	<= 1.0 % @Time 86400 sec	<= 1.0 % @Time 24.0 hour	DIN 53428
Particle Size	>= 1500 µm	>= 1500 µm	
	<= 3000 µm	<= 3000 µm	

Mechanical Properties	Metric	English	Comments
Tensile Strength	1.41 MPa	205 psi	DIN EN ISO 1798
Elongation at Break	20 %	20 %	DIN EN ISO 1798
Compressive Strength	0.680 MPa @Strain 10.0 %	98.6 psi @Strain 10.0 %	ISO 844
	0.750 MPa @Strain 25.0 %	109 psi @Strain 25.0 %	ISO 844
	1.10 MPa @Strain 50.0 %	160 psi @Strain 50.0 %	ISO 844
Compression Set	25 % @Temperature 23.0 °C, Time 79200 sec	25 % @Temperature 73.4 °F, Time 22.0 hour	50% RH; 24h after stress release; DIN EN ISO 1856 (Procedure C)

Thermal Properties	Metric	English	Comments
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Thermal Conductivity Thermal Properties	0.0460 W/m-K Metric	0.319 BTU-in/hr-ft²-°F English	DIN 52612 Comments
Melting Point	120 - 180 °C	248 - 356 °F	
Decomposition Temperature	>= 180 °C	>= 356 °F	
Flash Point	>= 200 °C	>= 392 °F	ASTM D1929

Descriptive Properties	Value	Comments
Average Particle Weight	1.0 - 1.4 mg	
Color	Black	
Commercial Status	Europe	
Dimensional Stability at Heat	<2%	Linear size alterations after 4 d, 110°C; DIN ISO 2796
Ignition Temperature	> 360 °C	ASTM D1929

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