

BASF E-por® 0.02 g/cc Density; Styrene and Ethylene (Europe)

Category : Polymer , Thermoplastic , Polyethylene (PE) , Polystyrene (PS) , Expanded Polystyrene (EPS)

Material Notes:

Description: Expandable granules made of styrene and ethylene containing polymers without flame retardant (blowing agent: pentane). Application: For the production of elastic, multi-shock absorbing expanded foams. Information provided by BASF

Order this product through the following link:

http://www.lookpolymers.com/polymer_BASF-E-por-002-gcc-Density-Styrene-and-Ethylene-Europe.php

Physical Properties	Metric	English	Comments
Bulk Density	0.0160 - 0.0350 g/cc	0.000578 - 0.00126 lb/in ³	
Density	0.0200 g/cc	0.000723 lb/in ³	

Mechanical Properties	Metric	English	Comments
Tensile Stress	0.0800 MPa	11.6 psi	
	0.120 MPa	17.4 psi	
	0.260 MPa	37.7 psi	
	0.380 MPa	55.1 psi	
	0.540 MPa	78.3 psi	
Flexural Strength	0.237 MPa	34.4 psi	0% E-por Content; DIN 53423
	0.247 MPa	35.8 psi	60% E-por Content; DIN 53423
	0.257 MPa	37.3 psi	100% E-por Content; DIN 53423
	0.265 MPa	38.4 psi	DIN-EN 12089
Compressive Strength	0.0900 MPa	13.1 psi	DIN-EN 826
	@Strain 10.0 %	@Strain 10.0 %	
	0.115 MPa	16.7 psi	DIN-EN 826
	@Strain 25.0 %	@Strain 25.0 %	

Processing Properties	Metric	English	Comments
Moisture Content	<= 0.50 %	<= 0.50 %	

Descriptive Properties	Value	Comments
Commercial Status	Europe	

Descriptive Properties	Value	Comments
Energy Absorption	9.5 J	Hysteresis at 70% compression, v=% mm/min; ISP 3386-1
Flexural Work to Break	0.227	0% E-por Content; DIN 53423
	0.247	60% E-por Content; DIN 53423
	0.25	100% E-por Content; DIN 53423
	5.7 J	DIN-EN 12098

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