BASF E-por® 0.03 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-003-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/in³	
Density	0.0300 g/cc	0.00108 lb/in³	

Mechanical Properties	Metric	English	Comments
Tensile Stress	0.125 MPa	18.1 psi	
	0.195 MPa	28.3 psi	
	0.250 MPa	36.3 psi	
	0.375 MPa	54.4 psi	
	0.700 MPa	102 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
	0.410 MPa	59.5 psi	DIN-EN 12089
Compressive Strength	0.140 MPa @Strain 10.0 %	20.3 psi @Strain 10.0 %	DIN-EN 826
	0.175 MPa @Strain 25.0 %	25.4 psi @Strain 25.0 %	DIN-EN 826

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

Descriptive Properties	Value	Comments
Commercial Status	Europe	

Descriptive Properties	Value	Comments
Energy Absorption	16 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
	6.8 J	DIN-EN 12098

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