

Jackon JACKOCELL® R411 Expanded Polystyrene Packaging and Shape Molding

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

Material Notes:

100% Polystyrene. Pre-expansion The unique design of polystyrene chains and additive chemistry in the Jackocell® R411 gives pre-expanded beads of high dimensional stability. The R411 represents the smallest EPS beads in the Jackocell® EPS grade selection. Shape Moulding The unique design of polystyrene chains in combination with small beads and narrow bead size distribution adds numerous advantages to Jackocell® R411 in shape moulding. Fast moulding cycles, good fusion and heat resistance - and easy to reach good surface. The additional broad moulding window further reduces waste material and maintains high quality to the extent that it can be recognized long term on productivity and financial earnings.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Jackon-JACKOCELL-R411-Expanded-Polystyrene-Packaging-and-Shape-Molding.php

Physical Properties	Metric	English	Comments
Density	0.0160 g/cc	0.000578 lb/in ³	2 minute residence time pre-expander
	0.0180 g/cc	0.000650 lb/in ³	2.4 minute residence time pre-expander
	0.0210 g/cc	0.000759 lb/in ³	1 minute residence time pre-expander
	0.0330 g/cc	0.00119 lb/in ³	0.5 minute residence time pre-expander
Water Absorption	4.0 %	4.0 %	13-20 hour silo ageing time; Volume%
Bead Size	0.400 - 0.700 mm	0.0157 - 0.0276 in	

Mechanical Properties	Metric	English	Comments
Flexural Strength	0.365 MPa	52.9 psi	16 hour silo aging time, 20 kg/m ³
	0.368 MPa	53.4 psi	64 hours silo aging time, 20 kg/m ³
	0.369 MPa	53.5 psi	48 hour silo aging time, 20 kg/m ³
	0.370 MPa	53.7 psi	32 hour silo aging time, 20 kg/m ³
Compressive Strength	1.37 MPa	199 psi	16 hour silo aging time, 20 kg/m ³
	1.39 MPa	202 psi	32 hour silo aging time, 20 kg/m ³
	1.39 MPa	202 psi	48 hour silo aging time, 20 kg/m ³
	1.39 MPa	202 psi	64 hours silo aging time, 20 kg/m ³

Chemical Properties	Metric	English	Comments
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Blowup Agent Content Chemical Properties	$\geq 6.0\%$ Metric	$\geq 6.0\%$ English	Pentane Comments
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Descriptive Properties	Value	Comments
Coefficient of Variation (%), max	12	
Moulding Cycle Time (sec)	100	48 hour silo aging time, 20 kg/m ³
	130	32 hour silo aging time, 20 kg/m ³
	175	6 hour silo aging time, 20 kg/m ³
	90	64 hours silo aging time, 20 kg/m ³

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