

Jackon JACKOCELL[®] R311 Expanded Polystyrene Packaging and Shape Molding

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

Material Notes:

100% Polystyrene. Pre-expansion High density stability in pre-expansion, transportation and silo storage reduces opportunity losses through achieving typical lower average density during regular production. It is the unique design of polystyrene chains that gives the high strength advantages to Jackocell[®] R311 in pre-expansion Shape Moulding. Fast molding cycles, good fusion, and easy to reach good surface. The additional broad moulding window further reduces waste material and maintains a 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-R311-Expanded-Polystyrene-Packaging-and-Shape-Molding.php

Physical Properties	Metric	English	Comments
Density	0.0140 g/cc	0.000506 lb/in ³	1.2 minute residence time pre-expander
	0.0170 g/cc	0.000614 lb/in ³	2.4 minute residence time pre-expander
	0.0200 g/cc	0.000723 lb/in ³	0.9 minute residence time pre-expander
	0.0280 g/cc	0.00101 lb/in ³	0.5 minute residence time pre-expander
Water Absorption	4.6 %	4.6 %	13-20 hour silo ageing time; Volume%
Bead Size	0.700 - 1.00 mm	0.0276 - 0.0394 in	

Mechanical Properties	Metric	English	Comments
Flexural Strength	0.333 MPa	48.3 psi	16 hour silo aging time, 20 kg/m ³
	0.340 MPa	49.3 psi	32 hour silo aging time, 20 kg/m ³
	0.346 MPa	50.2 psi	48 hour silo aging time, 20 kg/m ³
	0.352 MPa	51.1 psi	64 hours silo aging time, 20 kg/m ³
Compressive Strength	0.120 MPa	17.4 psi	16 hour silo aging time, 20 kg/m ³
	0.124 MPa	17.9 psi	32 hour silo aging time, 20 kg/m ³
	0.127 MPa	18.5 psi	48 hour silo aging time, 20 kg/m ³
	1.32 MPa	191 psi	64 hours silo aging time, 20 kg/m ³

Chemical Properties	Metric	English	Comments
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Blowing Agent Content Chemical Properties	$\geq 6.0\%$ Metric	$\geq 6.0\%$ English	Pentane Comments
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Descriptive Properties	Value	Comments
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Coefficient of Variation (%), max	15	
Moulding Cycle Time (sec)	100	64 hours silo aging time, 20 kg/m ³
	110	48 hour silo aging time, 20 kg/m ³
	140	32 hour silo aging time, 20 kg/m ³
	210	6 hour silo aging time, 20 kg/m ³

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