

Jackon JACKOCELL® S314 Expanded Polystyrene Construction and Block Molding

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

Material Notes:

Pre-ExpansionThe unique design of polystyrene chains and additive chemistry in Jackocell® S314 gives pre-expanded beads high dimensional stability even at low densities, which typically reduces average operational density, providing a safe road to higher earnings. The S314 represents among the lowest density choices of all Jackocell® EPS grades.
Block MouldingIt is different from normal and regular block grades - lower densities in combination with low water absorption and high strength, however at slightly longer moulding times - makes Jackocell® S314 the favorite choice for manufacture of high quality insulation boards. It is best characterized by high heat stability, which gives substantial advantages in block moulding - such as good density control, high strength, good fusion and low scrap to secure financial opportunity losses to the end user.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Jackon-JACKOCELL-S314-Expanded-Polystyrene-Construction-and-Block-Molding.php

Physical Properties	Metric	English	Comments
Density	0.0150 g/cc	0.000542 lb/in ³	90 second cycle time
	0.0180 g/cc	0.000650 lb/in ³	75 second cycle time
	0.0180 g/cc	0.000650 lb/in ³	75 rpm
	0.0185 g/cc	0.000668 lb/in ³	100 rpm
	0.0200 g/cc	0.000723 lb/in ³	120 rpm
	0.0200 g/cc	0.000723 lb/in ³	105 second cycle
Water Absorption	0.80 %	0.80 %	16 g/l; Volume%
	0.80 %	0.80 %	18 g/l; Volume%
	0.80 %	0.80 %	20 g/l; Volume%

Mechanical Properties	Metric	English	Comments
Flexural Strength	0.155 MPa	22.5 psi	15 g/l
	0.200 MPa	29.0 psi	16 g/l
	0.240 MPa	34.8 psi	19 g/l
Compressive Strength	1.02 MPa	148 psi	16 g/l
	1.12 MPa	162 psi	18 g/l
	1.24 MPa	180 psi	20 g/l

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.0348 W/m-K	0.242 BTU-in/hr-ft ² -°F	18 g/l; EN 12667
	0.0360 W/m-K	0.250 BTU-in/hr-ft ² -°F	16 g/l; EN 12667
	0.0372 W/m-K	0.258 BTU-in/hr-ft ² -°F	15 g/l; EN 12667

Descriptive Properties	Value	Comments
Moulding Cycle Time (sec)	205	16 g/l
	230	18 g/l
	240	20 g/l

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