Jackon JACKOCELLÂ® S214 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 JackocellÂ® S214 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 S214 represents among the lowest density choices of all JackocellÂ® 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 JackocellÂ® S214 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-S214-Expanded-Polystyrene-Construction-and-Block-Molding.php

Physical Properties	Metric	English	Comments
Density	0.0120 g/cc	0.000434 lb/inÂ³	95 second cycle time
	0.0145 g/cc	0.000524 lb/inÂ³	73 second cycle time
	0.0160 g/cc	0.000578 lb/inÂ³	75 rpm
	0.0170 g/cc	0.000614 lb/inÂ³	100 rpm
	0.0190 g/cc	0.000686 lb/inÂ³	45 second cycle time
	0.0200 g/cc	0.000723 lb/inÂ³	110 second cycle time
	0.0200 g/cc	0.000723 lb/inÂ³	125 rpm
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	0.120 MPa	17.4 psi	15 g/l
	0.200 MPa	29.0 psi	16 g/l
	0.230 MPa	33.4 psi	19 g/l
Compressive Strength	0.920 MPa	133 psi	16 g/l
	1.07 MPa	155 psi	18 g/l

Mechanical Properties	Metric	English	Comments
	1.22 MPa	177 psi	20 g/l

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.0352 W/m-K	0.244 BTU-in/hr-ftÂ²-Â°F	18 g/l; EN 12667
	0.0364 W/m-K	0.253 BTU-in/hr-ftÂ²-Â°F	16 g/l; EN 12667
	0.0384 W/m-K	0.266 BTU-in/hr-ftÂ²-Â°F	15 g/l; EN 12667

Descriptive Properties	Value	Comments
Moulding Cycle Time (sec)	190	16 g/l
	210	18 g/l
	230	20 g/l

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