

NOVA Chemicals Dylite® F271T Specialty Expandable Polystyrene

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

Material Notes:

Features: Highly consistent bead size; high gloss characteristics; low energy consumption; fast cycling
 Applications: Drinking cups -hot and cold, noodle bowls, take-out and ice cream containers, and thin-wall cups
 Attributes: Good thermal insulation, superior temperature retention, less exterior condensation, strong and lightweight
 Information provided by NOVA Chemicals.

Order this product through the following link:

http://www.lookpolymers.com/polymer_NOVA-Chemicals-Dylite-F271T-Specialty-Expandable-Polystyrene.php

Physical Properties	Metric	English	Comments
Bulk Density	0.608 - 0.640 g/cc	0.0220 - 0.0231 lb/in ³	Before expansion
Density	>= 0.0481 g/cc	>= 0.00174 lb/in ³	Single Pass Continuous Expansion
	>= 0.0481 g/cc	>= 0.00174 lb/in ³	Batch Expansion

Mechanical Properties	Metric	English	Comments
Flexural Yield Strength	0.483 MPa	70.0 psi	(5% Strain) at 2 pcf expanded density; ASTM C203
	3.17 MPa	460 psi	(5% Strain) at 10 pcf expanded density; ASTM C203
Flexural Modulus	0.0207 GPa	3.00 ksi	at 2 pcf expanded density
	0.0676 GPa	9.80 ksi	at 10 pcf expanded density

Thermal Properties	Metric	English	Comments
CTE, linear	63.0 μm/m-°C	35.0 μin/in-°F	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Maximum Service Temperature, Air	80.0 °C	176 °F	Continuous Service

Descriptive Properties	Value	Comments
Bead Size	0.4 mm	Unexpanded
Pentane	5.6 wt%	
Pre-expansion lube level	1000 ppm	
Pre-puff age time	2 - 8 hours	

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