

NOVA Chemicals Dylite® F271TN Expandable Polystyrene Resin

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

Material Notes:

Highly consistent bead size, High gloss characteristics, Low energy consumption, Fast molding cycles, Food contact

compliant Applications: Drinking cups (hot and cold), Noodle bowls, Take-out containers, Ice cream containers, Thin wall cups, Labeled and printed cups

Attributes: Good thermal insulation, Superior temperature retention, Less exterior condensation, Strong and lightweight, Superior taste and odor properties Dylite F271TN resin is manufactured at an ISO 9001 and ISO 14001 registered facility. NOVA Chemicals Dylite resins are biologically and chemically inert. Dylite does not contain chlorofluorocarbons.

Order this product through the following link:

http://www.lookpolymers.com/polymer_NOVA-Chemicals-Dylite-F271TN-Expandable-Polystyrene-Resin.php

Physical Properties	Metric	English	Comments
Bulk Density	0.609 - 0.641 g/cc	0.0220 - 0.0231 lb/in ³	
Bead Size	0.305 - 0.508 mm	0.0120 - 0.0200 in	

Mechanical Properties	Metric	English	Comments
Flexural Strength	0.827 MPa	120 psi	Density 3 pcf; ASTM C203
	@Strain 5.00 %	@Strain 5.00 %	
	3.17 MPa	460 psi	Density 10 pcf; ASTM C203
	@Strain 5.00 %	@Strain 5.00 %	
Flexural Modulus	0.0276 GPa	4.00 ksi	Density 3 pcf
	0.0676 GPa	9.80 ksi	Density 10 pcf

Thermal Properties	Metric	English	Comments
CTE, linear	63.0 µm/m-°C	35.0 µin/in-°F	
Thermal Conductivity	0.0339 W/m-K	0.235 BTU-in/hr-ft ² -°F	
Maximum Service Temperature, Air	79.4 °C	175 °F	Continuous

Descriptive Properties	Value	Comments
Minimum Recommended Processing Density	3.0 pcf	
Pentane Content	5.3 to 5.9%	by weight
Pre-expansion lube levels	1000 ppm	
Pre-puff age time	2 to 8 hours	

Thermal Resistance (R Factor) Descriptive Properties	4.26 (hr-ft ² -°F)/Btu-in Value	Comments
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