

## Dow STRANDFOAM™ EA 1000 Polypropylene Foam

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene, Foamed

### Material Notes:

STRANDFOAM™ EA 1000 Energy Absorbing polypropylene foam is a strong, low-density, closed-cell foam. It is suited as a component material in products requiring a shock and energy absorbing or vibration dampening component in packaging, material transport, and automotive applications. Information provided by Dow

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Dow-STRANDFOAM-EA-1000-Polypropylene-Foam.php](http://www.lookpolymers.com/polymer_Dow-STRANDFOAM-EA-1000-Polypropylene-Foam.php)

Physical Properties	Metric	English	Comments
Density	0.0400 g/cc	0.00145 lb/in <sup>3</sup>	DIN 53420

Mechanical Properties	Metric	English	Comments
Compressive Strength	0.117 MPa	17.0 psi	at 25%, Horizontal; ASTM D3575, Suffix D
	0.138 MPa	20.0 psi	at 25%, Vertical; ASTM D3575, Suffix D
	0.317 MPa	46.0 psi	at 25%, Extruded; ASTM D3575, Suffix D
Compressive Modulus	0.00130 GPa	0.189 ksi	Horizontal; ASTM D3575, Suffix D
	0.00174 GPa	0.252 ksi	Vertical; ASTM D3575, Suffix D
	0.00965 GPa	1.40 ksi	Extruded; ASTM D3575, Suffix D
Heat Distortion	<= 1.0 %	<= 1.0 %	linear change at 180°F; ASTM D3575, Suffix S

Thermal Properties	Metric	English	Comments
CTE, linear	57.6 μm/m-°C	32.0 μin/in-°F	Horizontal; ASTM D696
	@Temperature 20.0 °C	@Temperature 68.0 °F	
	72.0 μm/m-°C	40.0 μin/in-°F	Extrusion; ASTM D696
	@Temperature 20.0 °C	@Temperature 68.0 °F	
	73.8 μm/m-°C	41.0 μin/in-°F	Vertical; ASTM D696
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Thermal Conductivity	0.0448 W/m-K	0.310 BTU-in/hr-ft <sup>2</sup> -°F	ASTM D3575, Suffix V

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