

GECET™ F-100

Expanded Polystyrene

Fagerdala USA Inc.

Message:

GECET™ resins are light weight, and high strength expandable interpolymers that withstand high temperatures. These resins are used in the automotive, bicycle helmet, and other industries where it is required to manage the impact energy. For the same stiffness, a part made from GECET™ resins is 20% and 40% lighter than EPP and PU Foam respectively. Usually a part with the same stiffness made from GECET™ resins costs less than EPP and PU foam part. GECET™ resins parts can be molded for a density range of 2.25 to 20.00 pounds per cubic foot (pcf) enabling the designer to custom-tailor GECET™ resins to specific applications. GECET™ resins may be used for applications that require an end use temperature up to 250o F. All GECET™ resins are black and micro-pelletized with a particle size of 0.6 - 1.2 mm prior to pre-expansion.

General Information			
Features	Expandable		
	High Heat Resistance		
	High Stiffness		
	High Strength		
Uses	Automotive Applications		
	Safety Helmets		
Appearance	Black		
Forms	Pellets		
Mechanical	Nominal Value	Unit	Test Method
Flexural Strength			ASTM C203
-- ¹	1.28	MPa	
-- ²	0.634	MPa	
Compressive Strength			ASTM D1621
10% Strain ³	0.510	MPa	
10% Strain ⁴	0.262	MPa	
15% Strain ⁵	0.552	MPa	
15% Strain ⁶	0.290	MPa	
20% Strain ⁷	0.586	MPa	
20% Strain ⁸	0.310	MPa	
Flammability	Nominal Value		Test Method
Flammability - MVSS			FMVSS 302
-- ⁹	Pass		
-- ¹⁰	Pass		
Thermal Resistance - R-Value			ASTM C518
2.54 cm ¹¹	3.20		
2.54 cm ¹²	3.30		
NOTE			
1.	4 lbs/ft ³		

2.	2.5 lbs/ft ³
3.	4 lbs/ft ³
4.	2.5 lbs/ft ³
5.	4 lbs/ft ³
6.	2.5 lbs/ft ³
7.	4 lbs/ft ³
8.	2.5 lbs/ft ³
9.	2.5 lbs/ft ³
10.	4 lbs/ft ³
11.	2.5 lbs/ft ³
12.	4 lbs/ft ³

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