

FHR EPS R-MER II® 5627 (1.75 lb/ft³)

Expanded Polystyrene
Flint Hills Resources, LP

Message:

R-MER II® Grade 27 expandable resin is a high performance resin product designed to provide enhanced fracture resistance and improved multiple impact properties for premium cushion foam packaging. Flint Hills Resources R-MER II® resin may be expanded and molded using conventional EPS equipment and recycled using conventional EPS technology.

General Information			
Features	Impact resistance, good		
	Recyclable materials		
	Good cracking resistance		
Uses	Packaging		
	Foam		
RoHS Compliance	Contact manufacturer		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.0280	g/cm³	ASTM D792
Water Absorption (Equilibrium)	1.2	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Flexural Strength	0.317	MPa	ASTM D790
Compressive Strength			ASTM D695
10% strain	0.138	MPa	ASTM D695
20% strain	0.165	MPa	ASTM D695
50% strain	0.228	MPa	ASTM D695
Films	Nominal Value	Unit	Test Method
Water Vapor Transmission	57	g/m²/24 hr	ASTM E96
Thermal	Nominal Value	Unit	Test Method
Continuous Use Temperature	73.9	°C	ASTM D794
Additional Information			

The value listed as Density-Specific Gravity, ASTM D695, was tested in accordance with ASTM C303. The values listed as Compressive Strength, ASTM D695, were tested in accordance with ASTM D1621. The value listed as Flexural Strength, ASTM D790, was tested in accordance with ASTM C203. The value listed as Water Absorption @ Equil, ASTM D570, was tested in accordance with ASTM C272-91. Flexural Deflection, ASTM C203: 2 in Thermal Resistance, R-value, ASTM C177: 5 Compressive Creep, ASTM D3575, 1000 hrs @ 2.5 psi: 1% Compressive Creep, ASTM D3575, 1000 hrs @ 5 psi: 1%

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