

FHR EPS R-MER II® 5627 (1.25 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 | 0.0200 | g/cm³ | ASTM D792 |
| Water Absorption (Equilibrium) | 1.1 | % | ASTM D570 |
| Mechanical | Nominal Value | Unit | Test Method |
| Flexural Strength | 0.207 | MPa | ASTM D790 |
| Compressive Strength | | | ASTM D695 |
| 10% strain | 0.0896 | MPa | ASTM D695 |
| 20% strain | 0.110 | MPa | ASTM D695 |
| 50% strain | 0.172 | MPa | ASTM D695 |
| Films | Nominal Value | Unit | Test Method |
| Water Vapor Transmission | 36 | 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: 4 Compressive Creep, ASTM D3575, 1000 hrs @ 2.5 psi: 2% Compressive Creep, ASTM D3575, 1000 hrs @ 5 psi: 2.5%

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