



R-MER[®] II Resin (Grade 27)

FRACTURE AND CRUSH RESISTANCE COMPARISON

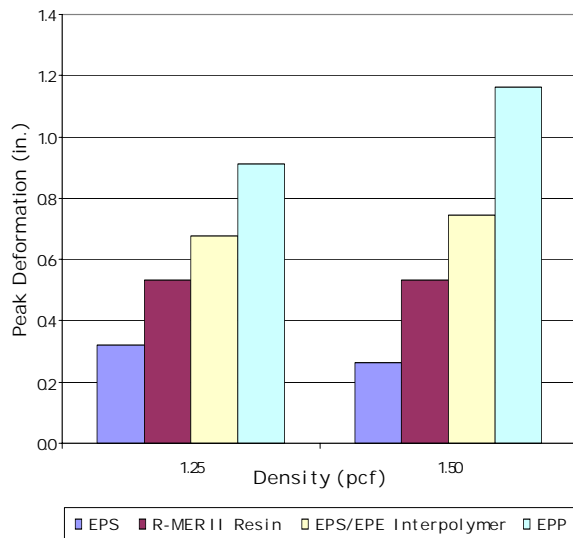
R-MER II resin is a high performance expandable resin with enhanced fracture resistance for dynamic impact cushion packaging.

The relative deformation and force required to initiate fracture of various cushion packaging foams was evaluated using a modified dart impact test. The original method, intended for solid plastic specimens, was adapted to test 1" thick foam.

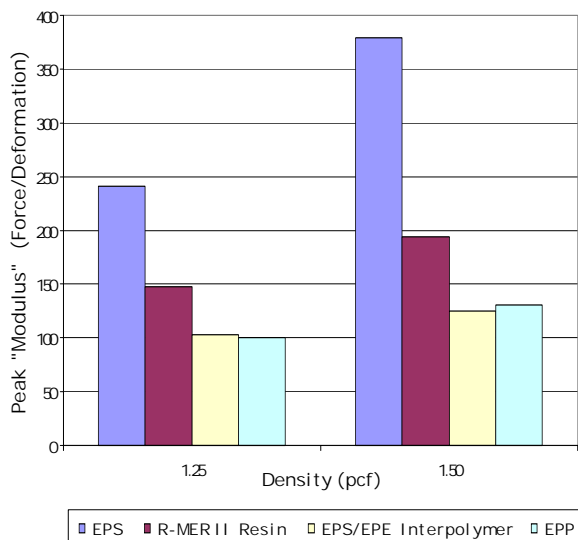
The peak deformation relates to the ability of a material to yield or deform before fracturing or tearing, and the peak energy relates to the amount of force required to initiate fracture. The peak "modulus" is the ratio of these two and is

an indicator of a material's ability to absorb energy by deformation without fracturing.

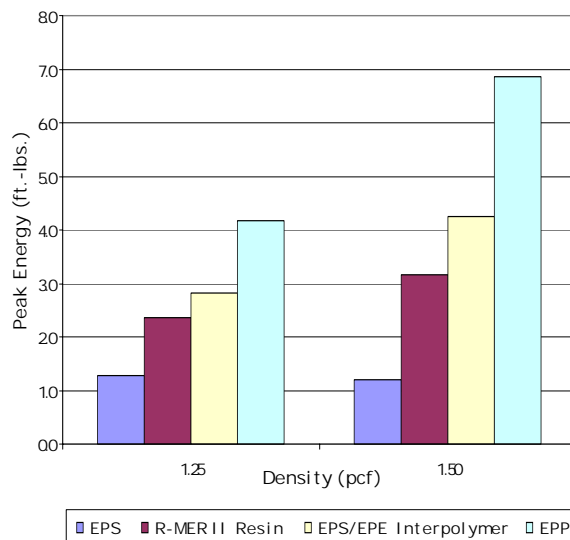
Peak Deformation



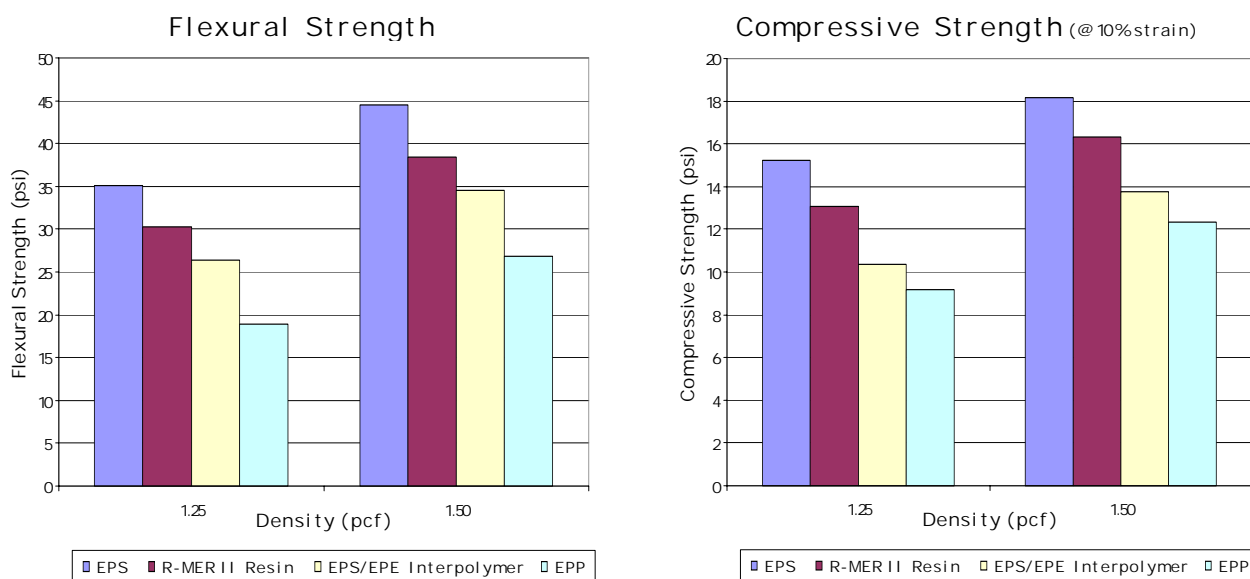
Peak "Modulus"



Peak Energy



In addition to excellent fracture resistance, R-MER II foam's superior compressive and flexural strengths provide better crush resistance in static loading than most polyolefin-based foams. R-MER II resin can be expanded and molded in standard EPS processing equipment, therefore offering the converter and the package designer a versatile solution for premium packaging equipment.



SHIPPING AND HANDLING PRECAUTIONS

R-MER II expandable resin contains a flammable blowing agent and is consequently regulated by the United States Department of Transportation as a CLASS 9-MISCELLANEOUS MATERIAL. This product is shipped in regulation UN 2211, 1000 - pound containers. Each container is lined with a hydrocarbon barrier liner to minimize the volatile emissions. Please refer to Huntsman Corporation's Technical Bulletin No. 2-2.0 "Recommended Safety, Health and Environmental Guidelines" for Expandable Polystyrene, and to the Material Safety Data Sheet (MSDS) for Grade 27 resin, a copy of which is provided with the first resin shipment or upon request.

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