

Technical Bulletin - Comparison of ARPRO Expanded Polypropylene (EPP) vs. Expanded PS+PE Copolymer Blend

Item	EPP Copolymer (ARPRO)	Expanded PS+PE Copolymer
Ability to mold low densities (< 1.3 pcf)	1	3
Chemical Resistance	1	2
Energy Absorption Characteristics	1	2
Tear Strength	1	1
Wide Temperature Service Range	1	3
Ability to Recycle	1	3
Ability to re-introduce scrap into molded products	2	2
Contains flammable blowing agent	No	Yes
Requires exhaust ventilation during resin and expanded prepuff storage	No	Yes
Must be shipped in a refrigerated Transport	No	Yes
Must be stored in a refrigerator	No	Yes
Shelf life on expanded material	No	Yes
Cushioning Characteristics (Multiple Impact)	1	2
Low Dynamic Set at loading < 1.0 psi	1	2
Low Dynamic Set at loading > 5.0 psi	1	3
Static Compression Strength @ 25% Strain (1.6 pcf molded sample)	20 psi	18 psi
Tensile Strength (1.6 pcf molded sample)	52 psi	45 psi
Compressive Creep	1	1
Permanent Set (material recovery)	1	3

Key: 1 = Excellent, 2 = Good, 3 = Poor

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