



EdiZONE, LC
123 E 200 N
Alpine, UT 84004
801-756-2600 x204
Fax 801-756-2061
terry@edizone.com

Physical Data Sheet for Gelastic™

Material Description	Gelastic is a patented (US 5,994,450) oil-extended tri-block copolymer elastomeric gel. It is a thermoplastic material so it can be processed by extrusion, casting, or injection molding. Because the softness is controlled by oil content, Gelastic can be made in a wide range of durometers. In any softness, it is remarkably stronger than other types of elastomeric gels.
Durometer	Variable with formulation. Stiffest barely registers on Shore A scale, softest measures very low on Gram-Bloom scale.
Strength	Up to 1600 psi.
Plasticizer Bleed	Does not bleed plasticizer. Nontoxic plasticizer may be wicked away by some materials, but only in softer formulations.
Specific Gravity	0.89 g/cc.
Elastic Deflection (Extension)	Up to 2000% of (20 times) relaxed length at failure.
Compression Set	Under deflection (compression or extension) up to 500%, permanent compression set is 0 at ambient conditions.
Fatigue	At deflections up to 800%, survives hundreds of thousands of cycles
UV Resistance	Incidental moderate exposure acceptable. Additives required for severe exposure.
Flammability	Intelli-Gel made with Gelastic passes California 117 with additives (patent pending) and is self-extinguishing. Other rubbers and elastomers vary.
Color	Water clear, so it can be reliably colored from translucent to pastel to fluorescent.
Manufacturing	Extrusion, casting, and injection molding. Scrap can be reused. Post-consumer can be done.
Allergic Reaction	Hypoallergenic, passed human latex sensitivity test with zero reaction.
Toxicity	Nontoxic. Human Cell Cytotoxicity score 0. Human Cell Hemolysis score 0.
PVC Content	Contains no PVC or pthalate plasticizers.
Urethane Content	Contains no urethane.
Purchasing Options	Gelastic is a patented material which is used to provide competitive advantage. The customer will obtain a license from EdiZONE for the customer's field of use. The customer can then manufacture products or choose to have the products made by experienced manufacturers recommended by EdiZONE. Other than as samples to prospective customers, Gelastic is not available in bulk form such as rolls, sheets, or pellets. Please refer to Intelli-Gel, under products, for an especially effective application of Gelastic.