

TECHNICAL DATA SHEET

Product Name: Flexible Foams

Product Description:

WeatherAll Coatings Technologies manufactures a complete line of Flexible Foams with a vast range of densities. Typical flexible foams are used in seat cushions, sponges, pillows, toys, arm rests, body protection padding, oil pick-up blankets, impact gymnastic mats, sports equipment, bedding mattresses, shoes, soccer balls, vibration insulators, knee cushions and a forever list of innovative and environmentally demanding applications.

This wide variety of open-cell flexible foams may be uniquely and custom formulated to achieve special blends of mechanical, chemical and thermal properties. This includes developing a wide range of densities to suit the particular application whether hard flexible to soft flexible with high resiliency and low compression set.

Flexible foams may be colored, cast molded or rim molded and some sprayed to surface for padding.

Please let us know your application and our Technical Group will help guide you to an appropriate material

- Very versatile array and selection, coloring and processing.
- Excellent dimensional stability, uniform cellular expansion.
- Fire retardant E-84 Class I flexible foams available.

Application:

Flexible foams are 2-component material systems normally cast molded, rim molded with some available for spraying using high and/or low pressure dispensing equipment or hand-held spray cartridge. Batch mix casting is typical with standard mix ratios from 1:1, 1:2 to 1:3 with anywhere from 30 sec. to 90 sec. gel times. With the wide variety of Flexible Foam formulations, gel time and cures are much varied and may be customizable. As with most types of foams, preheating materials prior to mixing may provide more uniform cellular development. Please see Technical Data sheet for the particular foam mixing and application procedure. When using water-blown flexible foams, substrate must be dry with ambient relative humidity below 85%. Gas-blown Flexible foams are usually more consistent in cell development.

Please see some of the typical types of Flexible Foams listed below.

- [I-Skin Foams](#)
- [Cushion Foams](#)
- [Sponge Foams](#)
- [Impact Energy Foams](#)
- [Spray Padding Foams](#)

Please contact our Engineering and/or Technical Support Groups with any questions.

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