

Georgia Gulf

Data Sheet

3801/3802/3803

Georgia Gulf 3801, 3802, and 3803 are vinyl foam compounds designed for applications requiring lower density than standard rigid vinyls.

General Properties	Test Method	Typical Value
Specific Gravity: 3801	ASTM D-792	0.40 - 0.50
3802		0.60 - 0.70
3803		0.50 - 0.60
Mechanical Properties	Test Method	Typical Value
Tensile Strength, psi	ASTM D-638	1,910
Tensile Modulus, psi	ASTM D-638	262,000
Tensile Impact, ft-lbs/in ²	ASTM D-1822	6.1
Flexural Strength, psi	ASTM D-790	3,550
Flexural Modulus, psi	ASTM D-790	149,000
¹ / ₈ " Notched Izod Impact, ft-lbs/in	ASTM D-256	0.5
Hardness, Shore D	ASTM D-2240	57.8
Thermal Properties	Test Method	Typical Value
Heat Deflection Temperature at 264 psi, °F	ASTM D-648	140
Coefficient of Thermal Expansion, in/in °F	ASTM D-696	5.8 x 10 ⁻⁵

IMPORTANT: The technical data herein is believed to be accurate. It is offered for your consideration, investigation and verification. These values and sets of properties are based upon laboratory work with small scale equipment and does not necessarily indicate end product performance. Full scale testing and end product use and performance are the responsibility of the Buyer. Buyer assumes all risk of use, storage and handling of the product. NO WARRANTY, EXPRESSED OR IMPLIED, IS MADE INCLUDING, BUT NOT LIMITED TO, IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. Nothing contained herein shall be construed as a license to operate under, or recommendation to infringe, any patents. 1 "value" may not be construed as product specifications.

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Recommended Twin Screw Starting Conditions

Recommended starting temperatures for Georgia Gulf foam powder compounds on a twin screw extruder:

Zone 1	Zone 2	Zone 3	Zone 4	Adaptor	Die
330	330	350	360	365	375

The above temperatures are recommended starting conditions. Downward temperature adjustments in the rear barrel zones may be required to prevent the material from blowing before it reaches the barrel vent. The shear level and compression ratio of the screws will also have an effect on optimum processing temperatures.

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