

## HR-5009

Georgia Gulf HR-5009 is a rigid, fitting-grade PVC compound designed for hot runner molds, large parts and multi-cavity molds. This compound is characterized by excellent processability, which includes color hold, regrind stability and surface appearance. HR-5009 is NSF listed under standard 14/61 for both potable water and DWV applications.

General Properties	Test Method	Typical Value
Specific Gravity	ASTM D-792	1.39
Hardness, Rockwell R	ASTM D-785	115
Mold Shrinkage, 10 <sup>-3</sup> in/in	ASTM D-955	2-3
Flow Ratio (Distance/Wall Thickness, 390-400°F)	Georgia Gulf Test	170
Mechanical Properties	Test Method	Typical Value
Tensile Strength, psi	ASTM D-638	7,300
Tensile Modulus, psi	ASTM D-638	410,000
Flexural Strength, psi	ASTM D-790	13,000
Flexural Modulus, psi	ASTM D-790	420,000
Gardner Impact, 23°C, ½" R Tup	in-lbs in-lbs/mil	320 2.6
⅛" Notched Izod Impact, ft-lbs/in	ASTM D-256 at 23°C at -20°C	1.1 0.7
Thermal Properties	Test Method	Typical Value
Heat Deflection Temperature, °C	ASTM D-648 at 264 psi at 66 psi	71 75
Regulatory/Code	Test Method	Typical Value
Oxygen Index, %	ASTM D-2863	38
Flame Class	UL-94	V-O
NSF Standard 14	ASTM D-1784	12454-B

Reference: UL File #E53006. Note: All physical properties are based on injection molded test bars.

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**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 do 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.  
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