

## Axiall ProTherm® 4345 Rigid PVC, Extrusion

Category : Polymer , Thermoplastic , Vinyl (PVC)

### Material Notes:

Georgia Gulf ProTherm® 4345 is a CPVC powder blend designed for extrusion applications requiring high heat deflection temperatures. Processing and stability along with overall physical properties are excellent. Information provided by Georgia Gulf Georgia Gulf became Axiall Corporation in 2013.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Axiall-ProTherm-4345-Rigid-PVC-Extrusion.php](http://www.lookpolymers.com/polymer_Axiall-ProTherm-4345-Rigid-PVC-Extrusion.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.51 g/cc	1.51 g/cc	ASTM D-792

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	51.7 MPa	7500 psi	ASTM D-638
Elongation at Yield	4.0 %	4.0 %	ASTM D-638
Tensile Modulus	2.76 GPa	400 ksi	ASTM D-638
Flexural Strength	94.5 MPa	13700 psi	ASTM D-790
Flexural Modulus	2.62 GPa	380 ksi	ASTM D-790
Izod Impact, Notched	2.67 J/cm	5.00 ft-lb/in	ASTM D-256
	@Thickness 6.35 mm	@Thickness 0.250 in	
	3.74 J/cm	7.00 ft-lb/in	ASTM D-256
	@Thickness 3.17 mm	@Thickness 0.125 in	

Thermal Properties	Metric	English	Comments
CTE, linear	57.6 $\mu\text{m}/\text{m}\cdot\text{°C}$	32.0 $\mu\text{in}/\text{in}\cdot\text{°F}$	ASTM D-696
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Deflection Temperature at 0.46 MPa (66 psi)	110 °C	230 °F	annealed; ASTM D-648
Deflection Temperature at 1.8 MPa (264 psi)	105 °C	221 °F	annealed; ASTM D-648

Descriptive Properties	Value	Comments
Fusion Temperature, °C	199	ASTM D-2538
Fusion Time, minutes	1.7	ASTM D-2538

<b>Fusion Torque, meter-grams</b> Descriptive Properties	<b>3900</b> Value	<b>ASTM D-2538</b> Comments
Line-Out Temperature, °C	217	ASTM D-2538
Minimum Torque, meter-grams	2500	ASTM D-2538
Total Dynamic Thermal Stability, minutes	20	ASTM D-2538

## Contact Songhan Plastic Technology Co.,Ltd.

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