

Axiall ProTherm® 4351 Rigid PVC, Extrusion

Category : Polymer , Thermoplastic , Vinyl (PVC)

Material Notes:

Georgia Gulf ProTherm® 4351 is a CPVC powder blend designed for extrusion of large diameter, heavy wall industrial grade pipe requiring high heat deflection temperatures and excellent chemical resistance. Processing and stability 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-4351-Rigid-PVC-Extrusion.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.50 g/cc	1.50 g/cc	ASTM D-792

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	116	116	ASTM D-785
Hardness, Shore D	82	82	ASTM D-2240
Tensile Strength, Yield	51.7 MPa	7500 psi	ASTM D-638
Elongation at Yield	4.0 %	4.0 %	ASTM D-638
Tensile Modulus	2.68 GPa	389 ksi	ASTM D-638
Flexural Strength	82.7 MPa	12000 psi	ASTM D-790
Flexural Modulus	2.13 GPa	309 ksi	ASTM D-790
Izod Impact, Notched	2.30 J/cm @Thickness 6.35 mm	4.30 ft-lb/in @Thickness 0.250 in	ASTM D-256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	106 °C	222 °F	unannealed; ASTM D-648
	112 °C	233 °F	annealed; ASTM D-648
Deflection Temperature at 1.8 MPa (264 psi)	106 °C	222 °F	annealed; ASTM D-648

Descriptive Properties	Value	Comments
Cell Classification	23447	ASTM D-1784
Fusion Temperature, °C	208	ASTM D-2538
Fusion Time, minutes	2	ASTM D-2538

Descriptive Properties	Value	Comments
Line-Out Temperature, °C	220	ASTM D-2538
Minimum Torque, meter-grams	2750	ASTM D-2538
Total Dynamic Thermal Stability, minutes	20	ASTM D-2538

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