

Technical Information



SOLARKOTE™ A200M

Overview

SOLARKOTE™ A200M is an impact modified specialty grade thermoplastic acrylic resin formulated for capstock coextrusion. It is characterized by good balance between melt flow and chemical resistance. Key applications include building & construction and custom sheet markets, where matte texture and scratch resistance are desired. Primarily used as cap layer for ABS, acrylic, composite, and pultruded substrates.

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.16 g/cm ³	1.16 g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/3.8 kg)	1.3 g/10 min	1.3 g/10 min	ASTM D1238
Water Absorption (24 hr)	0.33 %	0.33 %	ASTM D570
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus	240000 psi	1650 MPa	ASTM D638
Tensile Strength (Yield)	5100 psi	35.2 MPa	ASTM D638
Tensile Elongation (Break)	42 %	42 %	ASTM D638
Flexural Modulus	240000 psi	1650 MPa	ASTM D790
Flexural Strength (Yield)	8400 psi	57.9 MPa	ASTM D790
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact (73°F (23°C))	1.0 ft-lb/in	53 J/m	ASTM D256
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Rockwell Hardness (M-Scale)	15	15	ASTM D785
Pencil Hardness	F-2H	F-2H	ASTM D3363
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load ¹			ASTM D648
66 psi (0.45 MPa), Annealed	201 °F	93.9 °C	
264 psi (1.8 MPa), Annealed	189 °F	87.2 °C	
Vicat Softening Temperature			
--	217 °F	103 °C	ASTM D1525 ²
--	198 °F	92.2 °C	ASTM D1525 ³
Thermal Conductivity	1.5 Btu·in/hr/ft ² /°F	0.22 W/m/K	ASTM C177
Optical	Nominal Value (English)	Nominal Value (SI)	Test Method
Light Transmittance (125.0 mil (3175 µm))	83.0 %	83.0 %	ASTM D1003
Haze (125.0 mil (3175 µm))	> 90.0 %	> 90.0 %	ASTM D1003

Additional Information

This SOLARKOTE™ Acrylic formulation is designed to effectively screen out high energy UV wavelength at 0.006" (6.0 mil) thickness.

Extrusion Notes

Recommended Drying Conditions: 180 °F (82 °C) for a minimum of 4 hours at -40°F (-40°C) dew point or < 0.06% moisture content.

Notes

These are typical properties only and are not to be construed as specifications. Users should confirm results by their own tests.

¹ Annealing Cycle: 4 hours at 176 °F (80 °C)

² Rate A (50°C/h), Loading 1 (10 N)

³ Rate A (50°C/h), Loading 2 (50 N)

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