

## Arkema Group Solarkote® A200 Acrylic

Category : Polymer , Thermoplastic , Acrylic (PMMA) , Acrylic, UV Stabilized, Molded

### Material Notes:

Superior UV protection and weatherability, ASTM Classification PMMA 0233V1 Information provided by Arkema Group

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Arkema-Group-Solarkote-A200-Acrylic.php](http://www.lookpolymers.com/polymer_Arkema-Group-Solarkote-A200-Acrylic.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.15 g/cc	1.15 g/cc	ASTM D792
Water Absorption	0.40 %	0.40 %	weight gain after 24 hr. immersion; ASTM D570
Linear Mold Shrinkage	0.0030 - 0.0080 cm/cm	0.0030 - 0.0080 in/in	ASTM D955
Melt Flow	1.6 g/10 min @Load 3.80 kg, Temperature 230 °C	1.6 g/10 min @Load 8.38 lb, Temperature 446 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	45	45	ASTM D785
Tensile Strength, Ultimate	37.9 MPa	5500 psi	ASTM D638
Tensile Modulus	1.86 GPa	270 ksi	ASTM D638
Flexural Strength	<= 71.0 MPa	<= 10300 psi	ASTM D790
Flexural Modulus	1.86 GPa	270 ksi	ASTM D790
Izod Impact, Notched	0.587 J/cm	1.10 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.216 W/m-K	1.50 BTU-in/hr-ft <sup>2</sup> -°F	ASTM C177
Deflection Temperature at 0.46 MPa (66 psi)	88.9 °C	192 °F	annealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	79.4 °C	175 °F	annealed; ASTM D648
Vicat Softening Point	86.1 °C	187 °F	50°C/hr; 50N; ASTM D1525
	97.8 °C	208 °F	50°C/hr; 10N; ASTM D1525

Optical Properties	Metric	English	Comments
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Optical Properties	<sup>1,49</sup> Metric	<sup>1,49</sup> English	Comments <small>sub&gt;</small> ; ASTM D542
	@Temperature 22.8 °C	@Temperature 73.0 °F	
Haze	<= 2.0 % @Thickness 3.17 mm	<= 2.0 % @Thickness 0.125 in	ASTM D1003
Transmission, Visible	90 % @Thickness 3.17 mm	90 % @Thickness 0.125 in	ASTM D1003

## Contact Songhan Plastic Technology Co.,Ltd.

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