

Solarkote® A

Polymethyl Methacrylate Acrylic
Altuglas International of Arkema Inc.

Message:

Solarkote® A is a Polymethyl Methacrylate Acrylic product. It is available in Europe or North America.

General Information			
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Density	1.15	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/3.8 kg)	1.6	g/10 min	ISO 1133
Molding Shrinkage - Flow	0.30 to 0.80	%	ASTM D955
Water Absorption (Equilibrium, 23°C, 50% RH)	0.40	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	45		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	1860	MPa	ASTM D638
Tensile Stress (Break, 23°C)	38.0	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	50	%	ISO 527-2
Flexural Modulus (23°C)	1860	MPa	ISO 178
Flexural Stress (23°C)	71.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength	5.8	kJ/m²	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	89.0	°C	ISO 75-2/B
1.8 MPa, Unannealed	79.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	98.0	°C	ISO 306/A
--	86.0	°C	ISO 306/B
Thermal Conductivity	0.20	W/m/K	ASTM C177
Optical	Nominal Value	Unit	Test Method
Refractive Index ¹	1.490		ISO 489
Transmittance	90.0	%	ASTM D1003
Haze	2.0	%	ASTM D1003
NOTE			
1.	Method B		

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