

Solarkote® P610

Polymethyl Methacrylate Acrylic
Altuglas International of Arkema Inc.

Message:

Solarkote® P610 is a Polymethyl Methacrylate Acrylic product. It is available in Europe or North America.

General Information			
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.14	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/3.8 kg)	0.80	g/10 min	ASTM D1238
Water Absorption (24 hr)	0.40	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	69		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1320	MPa	ASTM D638
Tensile Strength (Break)	20.7	MPa	ASTM D638
Tensile Elongation (Break)	85	%	ASTM D638
Flexural Modulus	1170	MPa	ASTM D790
Flexural Strength (Break)	33.1	MPa	ASTM D790
Taber Abrasion Resistance			ASTM D1044
100 Cycles, 500 g	0.00100	mg	
500 Cycles, 500 g	0.0105	mg	
1000 Cycles, 500 g	0.0165	mg	
2000 Cycles, 500 g	0.0355	mg	
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	96	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Annealed)	51.7	°C	ASTM D648
Vicat Softening Temperature			
--	68.9	°C	ASTM D1525 ¹
--	58.3	°C	ASTM D1525 ²
CLTE - Flow			ASTM E831
-18°C	1.2E-4	cm/cm/°C	
-7°C	1.2E-4	cm/cm/°C	
24°C	1.4E-4	cm/cm/°C	
38°C	1.5E-4	cm/cm/°C	
Thermal Conductivity	0.22	W/m/K	ASTM C177
Optical	Nominal Value		Test Method

Refractive Index	1.490	ASTM D542
NOTE		
1.	Rate A (50°C/h), Loading 1 (10 N)	
2.	Rate A (50°C/h), Loading 2 (50 N)	

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