

Plexiglas® Frosted V045-68177

Polymethyl Methacrylate Acrylic

Altuglas International of Arkema Inc.

Message:

Plexiglas® Frosted V045-68177 is a Polymethyl Methacrylate Acrylic product. It is available in North America. Primary characteristic: flame rated.

General Information			
UL YellowCard	E39437-231409		
Appearance	Frost		
	Translucent		
	White		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.18	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/3.8 kg)	1.8	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.30 to 0.80	%	ASTM D955
Water Absorption (24 hr)	0.40	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	94		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3230	MPa	ASTM D638
Tensile Strength (Break)	71.0	MPa	ASTM D638
Tensile Elongation (Break)	5.8	%	ASTM D638
Flexural Modulus	3240	MPa	ASTM D790
Flexural Strength (Yield)	106	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	16	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load ¹			ASTM D648
0.45 MPa, Annealed	94.4	°C	
1.8 MPa, Annealed	92.8	°C	
Vicat Softening Temperature			
--	103	°C	ASTM D1525 ²
--	97.2	°C	ASTM D1525 ³
Thermal Conductivity	0.19	W/m/K	ASTM C177
Flammability	Nominal Value		Test Method
Flame Rating	HB		UL 94
Optical	Nominal Value	Unit	Test Method
Transmittance (3180 µm)	85.0	%	ASTM D1003

Additional Information	Nominal Value	Test Method
ASTM Classification	PMMA 0131T1V1	ASTM D788
NOTE		
1.	Annealing cycle: 4hrs @ 176°F	
2.	Rate A (50°C/h), Loading 1 (10 N)	
3.	Rate A (50°C/h), Loading 2 (50 N)	

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