

Plexiglas® Diffuse V045-68192

Polymethyl Methacrylate Acrylic

Altuglas International of Arkema Inc.

Message:

Plexiglas® Diffuse V045-68192 is a Polymethyl Methacrylate Acrylic product. It is available in North America. Primary characteristic: flame rated.

General Information			
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.19	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/3.8 kg)	1.9	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.20 to 0.60	%	ASTM D955
Water Absorption (24 hr)	0.40	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	81		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2930	MPa	ASTM D638
Tensile Strength (Yield)	55.2	MPa	ASTM D638
Tensile Elongation (Break)	12	%	ASTM D638
Flexural Modulus	2760	MPa	ASTM D790
Flexural Strength (Yield)	89.6	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	37	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load ¹			ASTM D648
0.45 MPa, Annealed	93.3	°C	
1.8 MPa, Annealed	90.6	°C	
Vicat Softening Temperature			
--	104	°C	ASTM D1525 ²
--	98.9	°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
Refractive Index ⁴	1.490		ASTM D542
Transmittance (2030 µm)	90.0	%	ASTM D1003
Haze (2030 µm)	< 1.0	%	ASTM D1003
Additional Information	Nominal Value		Test Method
ASTM Classification	PMMA Unspecified		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)
4.	ND @ 73°F

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