

Plexiglas® Diffuse™ V045-68209

Polymethyl Methacrylate Acrylic

Altuglas International of Arkema Inc.

Message:

Plexiglas® Diffuse™ V045-68209 is a thermoplastic acrylic resin sufficiently concentrated to be used in blend formulations via extrusion to tailor lens properties in the LED lighting market. It is characterized by its exceptional hiding performance and high light transmission.

General Information			
Features	High Light Transmission		
Uses	LEDs		
	Mixing		
Forms	Particle		
Processing Method	Extrusion		
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)	1.7	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.20 - 0.60	%	ASTM D955
Water Absorption (24 hr)	0.30	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	86		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2900	MPa	ASTM D638
Tensile Strength (Break)	61.0	MPa	ASTM D638
Tensile Elongation (Break)	15	%	ASTM D638
Flexural Modulus	2700	MPa	ASTM D790
Flexural Strength (Break)	100	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	38	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load ¹			ASTM D648
0.45 MPa, annealed	105	°C	ASTM D648
1.8 MPa, annealed	100	°C	ASTM D648
Vicat Softening Temperature			
--	109	°C	ASTM D1525 ²
--	104	°C	ASTM D1525 ³
Flammability	Nominal Value		Test Method
Flame Rating	HB		UL 94
Optical	Nominal Value	Unit	Test Method
Transmittance (2000 µm)	79.0	%	ASTM D1003

Haze (2000 μm)	> 100	%	ASTM D1003
Additional Information	Nominal Value		Test Method
ASTM Classification	PMMA 0111T0V1		ASTM D788
NOTE			

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| 1. | Annealing Cycle: 16 hours @ 90°C (194°F) |
| 2. | 速率 A (50°C/h), 压力1 (10N) |
| 3. | 速率 A (50°C/h), 载荷2 (50N) |

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