Plexiglas® Diffuse™ V045-68207

Polymethyl Methacrylate Acrylic

Altuglas International of Arkema Inc.

Message:

Plexiglas® Diffuse™ V045-68207 is a thermoplastic acrylic resin formulated for injection molding and extrusion applications in the LED lighting market. It is characterized by an excellent balance of transmission and hiding performance. It exhibits a textured surface when extruded.

General Information	
Uses	LEDs
Forms	Particle
Processing Method	Extrusion
	Injection molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.19	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/3.8 kg)	2.0	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)	88		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	3300	MPa	ASTM D638
Tensile Strength (Break)	69.0	MPa	ASTM D638
Tensile Elongation (Break)	15	%	ASTM D638
Flexural Modulus	3000	MPa	ASTM D790
Flexural Strength (Break)	100	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (23°C)	36	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load [1]			ASTM D648
0.45 MPa, annealed	101	°C	ASTM D648
1.8 MPa, annealed	97.0	°C	ASTM D648
Vicat Softening Temperature			
--	106	°C	ASTM D1525 [2]
--	100	°C	ASTM D1525 [3]
Flammability	**Nominal Value**		**Test Method**
Flame Rating	HB		UL 94
Optical	**Nominal Value**	**Unit**	**Test Method**
Transmittance (2000 µm)	89.0	%	ASTM D1003
Haze (2000 µm)	> 100	%	ASTM D1003

Additional Information	Nominal Value	Test Method
ASTM Classification	PMMA 0131T1V1	ASTM D788
NOTE		
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)	

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

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