

# Plexiglas® Frosted DR®-66080

Polymethyl Methacrylate Acrylic  
Altuglas International of Arkema Inc.

Message:

Plexiglas® Frosted DR®-66080 is an impact modified thermoplastic acrylic resin formulated for injection molding and extrusion applications. It has a frosted appearance, is heat resistant and provides 10 times the impact resistance of standard acrylics. It offers an excellent balance between melt flow and increased resistance to breakage, while providing weatherability superior to that provided by other high-impact plastics.

General Information	
Additive	Impact Modifier
Features	BPA Free
	Good Color Stability
	Good Dimensional Stability
	Good Thermal Stability
	Good Toughness
	Good UV Resistance
	Good Weather Resistance
	High Impact Resistance
	Impact Modified
	Low Shrinkage
	Scratch Resistant
Uses	Lighting Diffusers
Agency Ratings	FDA 21 CFR 177.1010
RoHS Compliance	RoHS Compliant
Appearance	Frost
	Translucent
	White
Forms	Pellets
Processing Method	Extrusion
	Injection Molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.16	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/3.8 kg)	0.80	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.30 to 0.80	%	ASTM D955
Water Absorption (24 hr)	0.30	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	50		ASTM D785
Mechanical	Nominal Value	Unit	Test Method

Tensile Modulus	2280	MPa	ASTM D638
Tensile Strength (Break)	52.4	MPa	ASTM D638
Tensile Elongation (Break)	38	%	ASTM D638
Flexural Modulus	2280	MPa	ASTM D790
Flexural Strength (Yield)	86.2	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 <sup>1</sup>			ASTM D648
0.45 MPa, Annealed	88.9	°C	
1.8 MPa, Annealed	79.4	°C	
Vicat Softening Temperature			
--	96.1	°C	ASTM D1525 <sup>2</sup>
--	85.0	°C	ASTM D1525 <sup>3</sup>
Thermal Conductivity	0.20	W/m/K	ASTM C177
Flammability	Nominal Value		Test Method
Flame Rating	HB		UL 94
Optical	Nominal Value	Unit	Test Method
Transmittance (3180 μm)	84.0	%	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)		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

#### 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

