Plexiglas® MI7

Polymethyl Methacrylate Acrylic

Altuglas International of Arkema Inc.

Message:

Plexiglas® MI7 is an impact modified thermoplastic acrylic resin formulated for injection molding and extrusion applications. It is heat resistant, has high melt flow and provides 7 times the impact resistance of standard acrylics while maintaining excellent optical properties. 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. Supplemental moldflow simulation data is available.

General Information	
UL YellowCard	E39437-231420
Additive	Impact Modifier
Features	BPA Free
	Good Color Stability
	Good Dimensional Stability
	Good Flow
	Good Thermal Stability
	Good Toughness
	Good UV Resistance
	Good Weather Resistance
	High Clarity
	High Heat Resistance
	Impact Modified
	Low Shrinkage
	Medium Impact Resistance
	Scratch Resistant
Uses	Automotive Exterior Parts
	Lighting Diffusers
Agency Ratings	FDA 21 CFR 177.1010
RoHS Compliance	RoHS Compliant
Appearance	Clear/Transparent
	Colors Available
	Opaque
	Translucent
Forms	Pellets
Processing Method	Extrusion
	Injection Molding

1.17 3.2 0.30 to 0.60 0.30 Nominal Value 68 Nominal Value 2520 48.3 35	g/cm³ g/10 min % % Unit Unit MPa MPa MPa %	ASTM D792 ASTM D1238 ASTM D955 ASTM D570 Test Method ASTM D785 Test Method ASTM D638 ASTM D638 ASTM D638
0.30 to 0.60 0.30 Nominal Value 68 Nominal Value 2520 48.3 35	% % Unit Unit MPa MPa	ASTM D955 ASTM D570 Test Method ASTM D785 Test Method ASTM D638 ASTM D638
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2520 48.3 35 2380	MPa MPa	ASTM D638 ASTM D638
48.3 35 2380	МРа	ASTM D638
35 2380		
2380	%	ΔSTM D638
		1 12 1 141 DO20
77.7	MPa	ASTM D790
11.4	MPa	ASTM D790
Nominal Value	Unit	Test Method
32	J/m	ASTM D256
Nominal Value	Unit	Test Method
		ASTM D648
91.1	°C	
85.0	°C	
98.9	°C	ASTM D1525 ²
		ASTM D1525 ³
		ASTM C177
	,,	Test Method
		UL 94
	Unit	Test Method
		ASTM D542
	%	ASTM D1003
		ASTM D1003
	70	Test Method
		ASTM D788
	Linit	A31101 D7 00
	Nominal Value 91.1 35.0	Nominal Value Unit Nominal Value Unit Online Comment Value Unit Online Comment Value Online Comment Value

Mold Temperature	37.8 to 87.8	°C
Injection Rate	Moderate	
Back Pressure	0.689	MPa
Screw Speed	50 to 100	rpm
Screw L/D Ratio	15.0:1.0 to 20.0:1.0	
Screw Compression Ratio	2.0:1.0 to 2.5:1.0	
Vent Depth	0.051	mm
Vent Depth NOTE	0.051	mm
·	0.051 Annealing cycle: 4hrs @ 176°F	mm
NOTE		mm
NOTE 1.	Annealing cycle: 4hrs @ 176°F	mm

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