## Plexiglas® MI7T

Polymethyl Methacrylate Acrylic Altuglas International of Arkema Inc.

## Message:

Plexiglas® MI7T is an impact modified thermoplastic acrylic resin formulated for injection molding and extrusion applications. It has high heat resistance 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 Impact Resistance		
	Good Weather Resistance		
	High Heat Resistance		
	Impact Modified		
Uses	Automotive Applications		
	Automotive Exterior Parts		
RoHS Compliance	RoHS Compliant		
Appearance	Clear/Transparent		
	Colors Available		
	Opaque		
	Translucent		
Forms	Pellets		
Processing Method	Extrusion		
	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.17	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/3.8 kg)	1.8	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.30 to 0.60	%	ASTM D955
Water Absorption (24 hr)	0.30	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	68		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2410	MPa	ASTM D638
Tensile Strength (Yield)	55.2	MPa	ASTM D638

Tensile Elongation (Break)	35	%	ASTM D638
Flexural Modulus	2410	MPa	ASTM D790
Flexural Strength (Yield)	86.9	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	32	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load <sup>1</sup> (1.8 MPa, Annealed)	90.6	°C	ASTM D648
Vicat Softening Temperature			
	108	°C	ASTM D1525 <sup>2</sup>
	97.2	°C	ASTM D1525 <sup>3</sup>
Thermal Conductivity	0.19	W/m/K	ASTM C177
Optical	Nominal Value	Unit	Test Method
Refractive Index <sup>4</sup>	1.490		ASTM D542
Transmittance (3180 μm)	92.0	%	ASTM D1003
Haze (3180 μm)	< 2.0	%	ASTM D1003
Additional Information	Nominal Value		Test Method
ASTM Classification	PMMA 0221V1		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)		
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