

**Altuglas® CR 8**

PMMA

Altuglas International

<b>Processing/Physical Characteristics</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Melt flow index, MFI	<b>0.7</b>	g/10min	ISO 1133
Temperature	<b>230</b>	°C	-
Load	<b>3.8</b>	kg	-
<b>ASTM Data</b>			
Mold Shrinkage, MD	<b>0.005</b>	mm/mm	ASTM D 955
<b>Mechanical properties</b>			
<b>ISO Data</b>			
Tensile Strength	<b>45</b>	MPa	ISO 527
Strain at break	<b>35</b>	%	ISO 527
Flexural modulus, 23°C	<b>2200</b>	MPa	ISO 178
Charpy impact strength, +23°C	<b>45</b>	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength, +23°C	<b>4</b>	kJ/m <sup>2</sup>	ISO 179/1eA
Izod notched impact strength, +23°C	<b>4.5</b>	kJ/m <sup>2</sup>	ISO 180/1A
<b>ASTM Data</b>			
Rockwell Hardness	<b>M 74</b>	-	ASTM D 785
<b>Thermal properties</b>			
<b>ISO Data</b>			
Temp. of deflection under load, 1.80 MPa	<b>90</b>	°C	ISO 75-1/-2
Vicat softening temperature, B	<b>101</b>	°C	ISO 306
<b>ASTM Data</b>			
UL 94 Flame rating	<b>HB</b>	-	UL 94
Coefficient of Thermal Expansion, MD	<b>90</b>	E-6/K	ASTM D 696
<b>Electrical properties</b>			
<b>ASTM Data</b>			
Dielectric Strength, Short Time	<b>16.5</b>	kV/mm	ASTM D 149
Dissipation Factor, 1 MHz	<b>0.04</b>	-	ASTM D 150
Dielectric Constant, 60 Hz	<b>3.85</b>	-	ASTM D 150
Surface Resistivity	<b>1E14</b>	Ohm	ASTM D 257
Volume Resistivity	<b>&gt;1E15</b>	Ohm*cm	ASTM D 257
<b>Optical properties</b>			
<b>ASTM Data</b>			
Haze	<b>1.5</b>	%	ASTM D 1003
Light Transmittance	<b>91</b>	%	ASTM D 1003
<b>Other properties</b>			
Humidity absorption	<b>0.34</b>	%	Sim. to ISO 62
Density	<b>1160</b>	kg/m <sup>3</sup>	ISO 1183
<b>Processing Recommendation Injection Molding</b>			
Pre-drying - Temperature	<b>85</b>	°C	-
Pre-drying - Time	<b>4</b>	h	-
Melt temperature	<b>235 - 245</b>	°C	-
Mold temperature	<b>80 - 90</b>	°C	-

**Characteristics****Processing**

Injection Molding

**Regional Availability**

North America, Europe, Asia Pacific, South and Central America, Near East/Africa

**Special Characteristics**

Transparent