

**Diakon Frost 902 80**

PMMA

Lucite 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>5.8</b>	g/10min	ISO 1133
<b>Mechanical properties</b>			
<b>ISO Data</b>			
Tensile Strength	<b>52</b>	MPa	ISO 527
Strain at break	<b>2.6</b>	%	ISO 527
Flexural modulus, 23°C	<b>3100</b>	MPa	ISO 178
Charpy impact strength, +23°C	<b>12</b>	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength, +23°C	<b>1.8</b>	kJ/m <sup>2</sup>	ISO 179/1eA
Izod notched impact strength, +23°C	<b>1.4</b>	kJ/m <sup>2</sup>	ISO 180/1A
Rockwell hardness	<b>M 89</b>	-	ISO 2039-2
Ball indentation hardness	<b>170</b>	MPa	ISO 2039-1
<b>Thermal properties</b>			
<b>ISO Data</b>			
Temp. of deflection under load, 1.80 MPa	<b>95</b>	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	<b>99</b>	°C	ISO 75-1/-2
Vicat softening temperature, A	<b>106</b>	°C	ISO 306
Vicat softening temperature, B	<b>100</b>	°C	ISO 306
Burning behav. at thickness h	<b>HB</b>	class	IEC 60695-11-10
<b>Optical properties</b>			
<b>ASTM Data</b>			
Haze	<b>88.8</b>	%	ASTM D 1003
Light Transmittance	<b>87.3</b>	%	ASTM D 1003
<b>Other properties</b>			
Water absorption	<b>0.3</b>	%	Sim. to ISO 62
Density	<b>1200</b>	kg/m <sup>3</sup>	ISO 1183
Density	<b>1200</b>	kg/m <sup>3</sup>	ASTM D 792

**Characteristics****Processing**

Other Extrusion

**Regional Availability**

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