

**ACRYPET IR D50 001**

PMMA

Mitsubishi Chemical Corporation

<b>Processing/Physical Characteristics</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Melt flow index, MFI	<b>2.4</b>	g/10min	ISO 1133
Temperature	<b>230</b>	°C	-
Load	<b>3.8</b>	kg	-
Molding shrinkage, parallel	<b>0.6</b>	%	ISO 294-4, 2577
<b>Mechanical properties</b>			
<b>ISO Data</b>			
Tensile Modulus	<b>1800</b>	MPa	ISO 527
Tensile Strength	<b>49</b>	MPa	ISO 527
Flexural modulus, 23°C	<b>1900</b>	MPa	ISO 178
Charpy impact strength, +23°C	<b>55</b>	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength, +23°C	<b>2.6</b>	kJ/m <sup>2</sup>	ISO 179/1eA
Izod notched impact strength, +23°C	<b>4.1</b>	kJ/m <sup>2</sup>	ISO 180/1A
Rockwell hardness	<b>M 52</b>	-	ISO 2039-2
<b>Thermal properties</b>			
<b>ISO Data</b>			
Temp. of deflection under load, 1.80 MPa	<b>84</b>	°C	ISO 75-1/-2
Vicat softening temperature, B	<b>85</b>	°C	ISO 306
<b>ASTM Data</b>			
Coefficient of Thermal Expansion, MD	<b>100</b>	E-6/K	ASTM D 696
Thermal Conductivity, solid state	<b>0.0288</b>	W/(m K)	ASTM C 177
<b>Optical properties</b>			
<b>ISO Data</b>			
Haze	<b>0.6</b>	-	ISO 14782
Luminous transmittance	<b>92</b>	%	ISO 13468-1, -2
<b>ASTM Data</b>			
Index of Refraction	<b>1.49</b>	-	ASTM D 542
<b>Other properties</b>			
Water absorption	<b>0.3</b>	%	Sim. to ISO 62
Density	<b>1160</b>	kg/m <sup>3</sup>	ISO 1183

**Characteristics****Special Characteristics**

U.V. stabilized or stable to weather

**Regional Availability**

Asia Pacific