

ACRYPET MF 001

PMMA

Mitsubishi Chemical Corporation

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt flow index, MFI	14	g/10min	ISO 1133
Temperature	230	°C	-
Load	3.8	kg	-
Molding shrinkage, parallel	0.4	%	ISO 294-4, 2577
Mechanical properties			
ISO Data			
Tensile Modulus	3200	MPa	ISO 527
Tensile Strength	66	MPa	ISO 527
Flexural modulus, 23°C	3200	MPa	ISO 178
Charpy impact strength, +23°C	18	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C	1.3	kJ/m ²	ISO 179/1eA
Izod notched impact strength, +23°C	2.1	kJ/m ²	ISO 180/1A
Rockwell hardness	M 92	-	ISO 2039-2
Thermal properties			
ISO Data			
Temp. of deflection under load, 1.80 MPa	84	°C	ISO 75-1/-2
Vicat softening temperature, B	89	°C	ISO 306
ASTM Data			
Coefficient of Thermal Expansion, MD	60	E-6/K	ASTM D 696
Thermal Conductivity, solid state	0.0288	W/(m K)	ASTM C 177
Optical properties			
ISO Data			
Haze	0.3	-	ISO 14782
Luminous transmittance	93	%	ISO 13468-1, -2
ASTM Data			
Index of Refraction	1.49	-	ASTM D 542
Other properties			
Water absorption	0.3	%	Sim. to ISO 62
Density	1190	kg/m ³	ISO 1183

Characteristics**Special Characteristics**

U.V. stabilized or stable to weather

Regional Availability

Asia Pacific