

ACRYPET IR S404 001

PMMA

Mitsubishi Chemical Corporation

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt flow index, MFI	8.5	g/10min	ISO 1133
Temperature	230	°C	-
Load	3.8	kg	-
Molding shrinkage, parallel	0.5	%	ISO 294-4, 2577
Mechanical properties			
ISO Data			
Tensile Modulus	1800	MPa	ISO 527
Tensile Strength	53	MPa	ISO 527
Flexural modulus, 23°C	1900	MPa	ISO 178
Charpy impact strength, +23°C	49	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C	2.6	kJ/m ²	ISO 179/1eA
Izod notched impact strength, +23°C	3.7	kJ/m ²	ISO 180/1A
Rockwell hardness	M 70	-	ISO 2039-2
Thermal properties			
ISO Data			
Temp. of deflection under load, 1.80 MPa	85	°C	ISO 75-1/-2
Vicat softening temperature, B	88	°C	ISO 306
ASTM Data			
Coefficient of Thermal Expansion, MD	90	E-6/K	ASTM D 696
Thermal Conductivity, solid state	0.0288	W/(m K)	ASTM C 177
Optical properties			
ISO Data			
Haze	0.5	-	ISO 14782
Luminous transmittance	92	%	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	1160	kg/m ³	ISO 1183

Characteristics**Special Characteristics**

U.V. stabilized or stable to weather

Regional Availability

Asia Pacific