

Basic properties

Properties	Test method	Test condition	Unit	MM-20	MM-60
Optical properties					
Transparency	ASTM D-1003	2.0mmt	%	92	93
Haze	ASTM D-1003	2.0mmt	%	0.3	0.3
Rheological properties					
Melt flow	ASTM D-1238	220°C 10kg	g/10min.	22	9
Molding shrinkage	ASTM D-955		%	0.2~0.6	0.2~0.6
Mechanical properties					
Yield stress	ASTM D-638	23°C	MPa (kg/cm ²)	60 (610)	69 (700)
Strain at break	ASTM D-638	23°C	%	3.5	18
Flexural modulus	ASTM D-790	23°C	MPa (kg/cm ²)	3240 (33,000)	3330 (34,000)
Flexural strength	ASTM D-790	23°C	MPa (kg/cm ²)	108 (1,100)	118 (1,200)
Notched izod impact strength	ASTM D-256	23°C 6.4mmt	J/m (kg*cm/cm)	31 (3.2)	27 (2.8)
Rockwell hardness	ASTM D-785	23°C R scale		120	128
Thermal properties					
Deflection temperature under load	ASTM D-648	1.82MPa 6.4mmt	°C	84	90
Coefficient of linear thermal expansion	ASTM D-696	—	×10 ⁻⁵ cm/cm/°C	7.0	7.0
Flammability	UL-94	—	—	-	HB
Other properties					
Density	ASTM D-792	23°C	g/cm ³	1.08	1.13
Typical injection molding condition					
Pre-drying			°C	80	80
			hr	2.0~	3.5~
Cylinder setting temperature			°C	200~260	200~260
Mold temperature			°C	40~70	40~70

These data are typical values measured by our injection molding test pieces with fixed testing method, not guaranteed values.