

ACRYREX® CM-205G

CHI MEI CORPORATION - *Polymethyl Methacrylate Acrylic*

General Information

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
RoHS Compliance	• RoHS Compliant		

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.19		ASTM D792
Density (73°F)	1.19	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/3.8 kg)	1.8	g/10 min	ASTM D1238
Melt Mass-Flow Rate (MFR) (230°C/3.8 kg)	1.8	g/10 min	ISO 1133
Water Absorption (24 hr, 77°F)	0.30	%	ASTM D570
Water Absorption (24 hr, 73°F)	0.30	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ² (0.125 in)	10200	psi	ASTM D638
Tensile Stress	1020	psi	ISO 527-2/5
Tensile Elongation ² (Break, 0.125 in)	5.0	%	ASTM D638
Tensile Strain (Break)	7.0	%	ISO 527-2/5
Flexural Strength ³ (0.250 in)	15600	psi	ASTM D790
Flexural Stress ⁴	1380	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F, 0.250 in)	0.37	ft·lb/in	ASTM D256
Notched Izod Impact Strength	0.95	ft·lb/in ²	ISO 180/1A
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale, 0.250 in)	97		ASTM D785
Rockwell Hardness (M-Scale)	97		ISO 2039-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load ⁵ (264 psi, Unannealed, 0.250 in)	212	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Annealed)	212	°F	ISO 75-2/A
Vicat Softening Temperature	235	°F	ASTM D1525 ⁶
Vicat Softening Temperature	235	°F	ISO 306/A50
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.06 in)	HB		UL 94
Optical	Nominal Value	Unit	Test Method
Light Transmittance			
118.1 mil	92.0	%	ISO 13468
125.0 mil	92.0	%	ASTM D1003

Notes

¹ Typical properties: these are not to be construed as specifications.

² 0.24 in/min

³ 0.11 in/min

⁴ 0.079 in/min

⁵ 120°C/hr

⁶ Rate A (50°C/h)

