

## Technical Datasheet CM-205

**1) Product Description:**

CM-205 is High heat injection grade clear transparent PMMA. It features high heat resistance and good mechanical strength.

**2) Applications:**

This grade is intended for protective coverings and automotive applications such as indicator cover of scooter, automobile, sun glasses, and digital watch cover.

**Typical data:**

PROPERTIES	TEST METHOD	TEST CONDITION	UNIT	CM-205
Melt Flow Index	1133	220 °C,10Kg	ml/10 min	1.8
Mass Density	1183	23 °C	g/cm <sup>3</sup>	1.19
Ball Indentation Hardness	2039-1	H358/30	N/mm <sup>2</sup>	158
Tensile Strength	527	50 mm/min,yield	MPa	73
		50 mm/min,break	MPa	73
Tensile Elongation	527	50 mm/min	%	10
Flexural Strength	178	2 mm/min	MPa	103
Flexural Modulus	178	2 mm/min	GPa	2.8
Izod Impact Strength	180/1A	Notched	KJ/m <sup>2</sup>	2
	180/1C	Unnotched		21
Charpy Impact Strength	179	Notched	KJ/m <sup>2</sup>	2
		Unnotched		26
Impact Flexural Test	179/2C	Notched	KJ/m <sup>2</sup>	2
	179/2D	Unnotched		22
Vicat Softening Temp.	306	1 Kg,50 °C/hr	°C	115
		5 Kg,50 °C/hr		107
		1 Kg,120 °C/hr		117
		5 Kg,120 °C/hr		109
Heat Distortion Temp. / A	75	1.08 MPa Unannealed	°C	95
		1.08 MPa Annealed	°C	104
UL Flammability	-	UL-94	-	1.5 mm HB

\* Typical values not to be construed as specifications.