

LG PMMA HP05

Polymethyl Methacrylate Acrylic
LG MMA Corp.

Message:

LG PMMA HP05 is a Polymethyl Methacrylate Acrylic material. It is available in Asia Pacific, Europe, Latin America, or North America.
Important attributes of LG PMMA HP05 are:
Flame Rated
RoHS Compliant
Typical application of LG PMMA HP05: Optics/Lenses

General Information			
Uses	Optical Applications		
RoHS Compliance	RoHS Compliant		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.18	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/3.8 kg)	1.6	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.20 to 0.60	%	ASTM D955
Water Absorption (24 hr)	0.30	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	98		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	68.6	MPa	ASTM D638
Tensile Elongation (Yield)	16	%	ASTM D638
Flexural Modulus	3290	MPa	ASTM D790
Flexural Strength (Yield)	131	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	1.4	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength	15	kJ/m ²	ISO 179/1eU
Notched Izod Impact (Area)	1.50	kJ/m ²	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	101	°C	ASTM D648
Vicat Softening Temperature	114	°C	ASTM D1525 ¹
CLTE - Flow	6.0E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	> 1.0E+15	ohms · cm	ASTM D257
Dielectric Strength ²	20	kV/mm	ASTM D149
Dielectric Constant (60 Hz)	3.10		ASTM D150
Dissipation Factor (60 Hz)	0.050		ASTM D150
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94
Optical	Nominal Value	Unit	Test Method

Refractive Index	1.490		ASTM D542
Transmittance (3200 μm)	92.0	%	ASTM D1003
Haze (3200 μm)	< 0.10	%	ASTM D1003
NOTE			
1.	Loading 1 (10 N)		
2.	4000 V/sec		

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