

LG PMMA HP02

Polymethyl Methacrylate Acrylic
LG MMA Corp.

Message:

Optical grade is of the best optical characteristics among our products. Applied to laptop displays and light guide panels inside LCD monitors, it is of high brightness and transparency. Minimized transmissivity decline due to yellowing by minimizing thermal deformation in processing, and secured excellent weatherability by restraining environment-dependent variations in a long term usage.

General Information			
Features	Good Weather Resistance		
	High Clarity		
	Opticals		
Uses	Computer Components		
	LCD Applications		
	Optical Applications		
RoHS Compliance	RoHS Compliant		
Appearance	Clear/Transparent		
Forms	Granules		
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)	96		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	66.7	MPa	ASTM D638
Tensile Elongation (Yield)	20	%	ASTM D638
Flexural Modulus	3300	MPa	ASTM D790
Flexural Strength (Yield)	134	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	15	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	92.0	°C	ASTM D648
Vicat Softening Temperature	112	°C	ASTM D1525 ¹
CLTE - Flow	6.0E-5	cm/cm/°C	ASTM D696
RTI Elec			UL 746
1.50 mm	50.0	°C	

3.00 mm	50.0	°C	
RTI Imp			UL 746
1.50 mm	50.0	°C	
3.00 mm	50.0	°C	
RTI Str			UL 746
1.50 mm	50.0	°C	
3.00 mm	50.0	°C	
Flammability	Nominal Value		Test Method
Flame Rating			UL 94
--	HB		
1.50 mm, Natural	HB		
3.00 mm	HB		
Optical	Nominal Value	Unit	Test Method
Refractive Index	1.490		ASTM D542
Transmittance			ASTM D1003
3000 μm	92.0	%	
150000 μm^2	90.0	%	
Haze (3000 μm)	0.50	%	ASTM D1003
Yellowness Index			ASTM D1925
3.00 mm	0.40	YI	
150 mm ³	1.6	YI	
Injection	Nominal Value	Unit	
Drying Temperature	70.0 to 80.0	°C	
Drying Time	4.0 to 6.0	hr	
Suggested Max Moisture	0.10	%	
NOTE			
1.	Loading 1 (10 N)		
2.	Long		
3.	Long		

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