Next PMMA AX-01YW.(MH-3121)

Polymethyl Methacrylate Acrylic

Next Polymers Ltd.

Message:

Description
PMMA Transparent Yellow compound
Product Applications
Lighting Fixture, Lenses, Automotive instrument panel & Industrial Application
Benefits
High Transmittance & High heat resistance

General Information			
Features	High Heat Resistance		
Uses	Automotive Instrument Panel Industrial Applications Lenses Lighting Fixtures		
Agency Ratings	EC 1907/2006 (REACH)		
RoHS Compliance	RoHS Compliant		
Appearance	Clear/Transparent Yellow		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.18	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/3.8 kg)	4.0	g/10 min	ASTM D1238
Molding Shrinkage			ASTM D955
Flow	0.30	%	
Across Flow	0.30	%	
Water Absorption (23°C, 24 hr)	0.30	%	ASTM D570
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (M-Scale)	100		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	3400	MPa	ASTM D638
Tensile Strength	70.0	MPa	ASTM D638
Tensile Elongation (Break)	10	%	ASTM D638
Flexural Modulus	3200	MPa	ASTM D790
Flexural Strength	120	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (23°C)	25	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**

Deflection Temperature Under Load (1.8 MPa, Unannealed)	102	°C	ASTM D648
Vicat Softening Temperature	109	°C	ASTM D1525
CLTE - Flow	7.0E-5	cm/cm/°C	ASTM D696
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	1.0E+16	ohms	IEC 60093
Volume Resistivity	1.0E+15	ohms·cm	IEC 60093
Electric Strength	20	kV/mm	IEC 60243-1
Dielectric Constant (60 Hz)	3.10		ASTM D150
Optical	**Nominal Value**	**Unit**	**Test Method**
Refractive Index	1.490		ASTM D542
Transmittance	91.0	%	ASTM D1003
Injection	**Nominal Value**	**Unit**	
Drying Temperature - Hot Air Dryer	90.0	°C	
Drying Time	4.0 to 6.0	hr	
Rear Temperature	240 to 250	°C	
Middle Temperature	250 to 260	°C	
Front Temperature	260 to 270	°C	
Mold Temperature	60.0 to 85.0	°C	

Recommended distributors for this material

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