

ACRYSTEX® PM-600

Styrene Methyl Methacrylate Acrylic Copolymer

CHI MEI CORPORATION

Message:

ACRYSTEX® PM-600 is a Styrene Methyl Methacrylate Acrylic Copolymer product. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America.

Characteristics include:

Flame Rated

RoHS Compliant

General Information			
UL YellowCard	E56070-245755		
RoHS Compliance	RoHS Compliant		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.12	g/cm ³	ASTM D792
23°C	1.12	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)			ASTM D1238
200°C/5.0 kg	1.5	g/10 min	
220°C/10.0 kg	8.0	g/10 min	
Melt Volume-Flow Rate (MVR) (220°C/10.0 kg)			ISO 1133
	21.3	cm ³ /10min	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	85		ASTM D785
Ball Indentation Hardness (H 358/30)	155	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			
Yield	68.4	MPa	ISO 527-2/50
Break	68.9	MPa	ISO 527-2/50
3.00 mm ¹	67.7	MPa	ASTM D638
Tensile Elongation			
Break, 3.00 mm ²	5.0	%	ASTM D638
Break	5.0	%	ISO 527-2/50
Flexural Modulus			
6.00 mm ³	3040	MPa	ASTM D790
-- ⁴	3200	MPa	ISO 178
Flexural Strength			
-- ⁵	98.1	MPa	ASTM D790
-- ⁶	118	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			
--	2.3	kJ/m ²	ISO 179

--	3.2	kJ/m²	ISO 179/2C
Charpy Unnotched Impact Strength			
--	15	kJ/m²	ISO 179
--	12	kJ/m²	ISO 179/2U
Notched Izod Impact			
23°C, 3.00 mm	20	J/m	ASTM D256
23°C, 6.00 mm	18	J/m	ASTM D256
--	3.0	kJ/m²	ISO 180/1A
Unnotched Izod Impact Strength	12	kJ/m²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, Unannealed	89.0	°C	ASTM D648
1.8 MPa, Unannealed	82.0	°C	ISO 75-2/A
1.8 MPa, Annealed	96.8	°C	ISO 75-2/A
Vicat Softening Temperature			
--	106	°C	ASTM D1525, ISO 306/A120 6 ⁷
--	103	°C	ISO 306/A50
--	97.4	°C	ISO 306/B50
--	100	°C	ISO 306/B120
Flammability	Nominal Value		Test Method
Flame Rating (1.60 mm)	HB		UL 94
NOTE			
1.	6.0 mm/min		
2.	6.0 mm/min		
3.	2.8 mm/min		
4.	2.0 mm/min		
5.	2.8 mm/min		
6.	2.0 mm/min		
7.	Rate A (50°C/h), Loading 1 (10 N)		

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