

ACRYREX® CM-211

Polymethyl Methacrylate Acrylic

CHI MEI CORPORATION

Message:

ACRYREX® CM-211 is a Polymethyl Methacrylate Acrylic 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	E56070-245762	E56070-455994	
RoHS Compliance	RoHS Compliant		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.19	g/cm ³	ASTM D792
23°C	1.19	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/3.8 kg)	16	g/10 min	ASTM D1238
Melt Volume-Flow Rate (MVR) (220°C/10.0 kg)	53.0	cm ³ /10min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale, 6.35 mm)	84		ASTM D785
Ball Indentation Hardness (H 358/30)	148	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			
Yield	68.0	MPa	ISO 527-2/50
Break	67.0	MPa	ISO 527-2/50
3.18 mm ¹	63.7	MPa	ASTM D638
Tensile Elongation			
Break, 3.18 mm ²	5.0	%	ASTM D638
Break	10	%	ISO 527-2/50
Flexural Modulus ³	2700	MPa	ISO 178
Flexural Strength			
6.35 mm ⁴	91.2	MPa	ASTM D790
-- ⁵	95.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	2.0	kJ/m ²	ISO 179, ISO 179/2C
Charpy Unnotched Impact Strength	23	kJ/m ²	ISO 179, ISO 179/2U
Notched Izod Impact			
23°C, 6.35 mm	20	J/m	ASTM D256
--	2.0	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength	17	kJ/m ²	ISO 180/1U

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, Unannealed, 6.35 mm ⁶	89.0	°C	ASTM D648
1.8 MPa, Unannealed	78.0	°C	ISO 75-2/A
1.8 MPa, Annealed	98.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	102	°C	ASTM D1525 ⁷
--	101	°C	ISO 306/A50
--	104	°C	ISO 306/A120
--	96.0	°C	ISO 306/B50, ISO 306/B120
Flammability	Nominal Value		Test Method
Flame Rating (1.59 mm)	HB		UL 94
Optical	Nominal Value	Unit	Test Method
Transmittance (3180 μm)	92.0	%	ASTM D1003
NOTE			
1.	6.0 mm/min		
2.	6.0 mm/min		
3.	2.0 mm/min		
4.	2.8 mm/min		
5.	2.0 mm/min		
6.	120°C/hr		
7.	Rate A (50°C/h)		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

