

ACRYPET® MD

Polymethyl Methacrylate Acrylic
Mitsubishi Rayon Co., Ltd.

Message:

Acrypet®MD is a polymethyl methacrylate-acrylic material. This product is available in North America.
Acrypet®The main features of MD are:
high hardness
beautiful
good weather resistance
chemical resistance
Transparency
Typical application areas include:
Automotive Industry
Electrical/electronic applications
electrical appliances
optics/lens

General Information			
UL YellowCard	E54695-244808	E256044-100422226	E95683-101677757
Features	Good chemical resistance		
	Good weather resistance		
	Definition, high		
	Good appearance		
	High hardness		
Uses	Electrical/Electronic Applications		
	Electrical appliances		
	Optical applications		
	Application in Automobile Field		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.19	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/3.8 kg)	6.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.20 - 0.60	%	ASTM D955
Water Absorption (24 hr)	0.30	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	92		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹	68.9	MPa	ASTM D638
Tensile Elongation ² (Break)	5.0	%	ASTM D638
Flexural Modulus (6.35 mm)	3040	MPa	ASTM D790
Flexural Strength (6.35 mm)	103	MPa	ASTM D790
Compressive Strength	103	MPa	ASTM D695

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (6.35 mm)	16	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	89.0	°C	ASTM D648
Vicat Softening Temperature	104	°C	ASTM D1525
CLTE - Flow	6.0E-5	cm/cm/°C	ASTM D696
Optical	Nominal Value	Unit	Test Method
Refractive Index	1.490		ASTM D542
Transmittance (3200 μm)	93.0	%	ASTM D1003
Additional Information			
Surface Resistivity, JIS K6911: > 10 ¹⁶ ohmVolume Resistivity, JIS K6911: > 10 ¹⁵ ohm-cmDielectric Breakdown Strength: 20 kV/mmDielectric Constant, 60Hz: 3.7Dielectric Loss Tangent, 60Hz: 0.05Arc Resistance, JIS K6911: No Trace			
NOTE			
1.	Type 1		
2.	Type 1		

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