

ACRYPET® MF

Polymethyl Methacrylate Acrylic

Mitsubishi Rayon Co., Ltd.

Message:

Acrypet®MF is a polymethyl methacrylate-acrylic material. This product is available in North America.

Acrypet®The main features of MF are:

high hardness

beautiful

good weather resistance

chemical resistance

Transparency

Typical application areas include:

Electrical/electronic applications

electrical appliances

optics/lens

Automotive Industry

General Information			
UL YellowCard	E54695-244809	E256044-100422227	E95683-101677758
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)	14	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)	90		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹	65.5	MPa	ASTM D638
Tensile Elongation ² (Break)	4.0	%	ASTM D638
Flexural Modulus (6.35 mm)	3040	MPa	ASTM D790
Flexural Strength (6.35 mm)	97.9	MPa	ASTM D790
Compressive Strength	97.9	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)	82.0	°C	ASTM D648
Vicat Softening Temperature	97.0	°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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