

# ACRYPET® IR G304

Polymethyl Methacrylate Acrylic

Mitsubishi Rayon Co., Ltd.

## Message:

Acrypet® IR G304 is a polymethyl methacrylate-acrylic material. This product is available in North America.

Acrypet® The main characteristics of IR G304 are:

high hardness

beautiful

Impact resistance

good weather resistance

chemical resistance

Typical application areas include:

Electrical/electronic applications

electrical appliances

optics/lens

Automotive Industry

General Information			
UL YellowCard	E54695-268348	E95683-101677755	
Features	Impact resistance, good 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	1.17	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/3.8 kg)	1.2	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.30 - 0.70	%	ASTM D955
Water Absorption (24 hr)	0.40	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	78		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>1</sup>	55.2	MPa	ASTM D638
Tensile Elongation <sup>2</sup> (Break)	78	%	ASTM D638
Flexural Modulus (6.35 mm)	2250	MPa	ASTM D790
Flexural Strength (6.35 mm)	78.6	MPa	ASTM D790

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (6.35 mm)	38	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	94.0	°C	ASTM D648
Vicat Softening Temperature	109	°C	ASTM D1525
CLTE - Flow	8.0E-5	cm/cm/°C	ASTM D696
Optical	Nominal Value	Unit	Test Method
Refractive Index	1.490		ASTM D542
Transmittance (3200 μm)	92.0	%	ASTM D1003

#### Additional Information

Surface Resistivity, JIS K6911: > 10<sup>16</sup> ohmVolume Resistivity, JIS K6911: > 10<sup>15</sup> ohm-cmDielectric Breakdown Strength: 18 kV/mmDielectric Constant, 60Hz: 3.9Dielectric Loss Tangent, 60Hz: 0.04Arc Resistance, JIS K6911: No Trace

#### NOTE

1. Type 1
2. Type 1

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#### Recommended distributors for this material

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