

ACRYPET® IR G504

Polymethyl Methacrylate Acrylic
Mitsubishi Rayon Co., Ltd.

Message:

Acrypet®IR G504 is a polymethyl methacrylate-acrylic material. This product is available in North America.
Acrypet®The main characteristics of IR G504 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	1.16	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/3.8 kg)	0.90	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.40 - 0.80	%	ASTM D955
Water Absorption (24 hr)	0.40	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	64		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹	44.1	MPa	ASTM D638
Tensile Elongation ² (Break)	85	%	ASTM D638
Flexural Modulus (6.35 mm)	1770	MPa	ASTM D790
Flexural Strength (6.35 mm)	60.0	MPa	ASTM D790

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (6.35 mm)	58	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	9.5E-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 ¹⁶ ohmVolume Resistivity, JIS K6911: > 10 ¹⁵ ohm-cmDielectric Breakdown Strength: 15 kV/mmDielectric Constant, 60Hz: 3.8Dielectric Loss Tangent, 60Hz: 0.04Arc Resistance, JIS K6911: No Trace			
NOTE			
1.	Type 1		
2.	Type 1		

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

