

ACRYPET® IR D50

Polymethyl Methacrylate Acrylic
Mitsubishi Rayon Co., Ltd.

Message:

Acrypet®IR D50 is a polymethyl methacrylate-acrylic material. This product is available in North America.
Acrypet®The main characteristics of IR D50 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	E256044-100422217	E256044-100422219
Features	E95683-101677755		
	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)	2.4	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)	50		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹	39.3	MPa	ASTM D638
Tensile Elongation ² (Break)	90	%	ASTM D638
Flexural Modulus (6.35 mm)	1770	MPa	ASTM D790

Flexural Strength (6.35 mm)	58.6	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (6.35 mm)	34	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	84.0	°C	ASTM D648
Vicat Softening Temperature	99.0	°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: 3.9Dielectric Loss Tangent, 60Hz: 0.04Arc Resistance, JIS K6911: No Trace			
NOTE			
1.	Type 1		
2.	Type 1		

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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



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