Acrypet® IR D30

Polymethyl Methacrylate Acrylic

Mitsubishi Rayon America Inc.

Message:

Acrypet®IR D30 is a polymethyl methacrylate-acrylic material. This product is available in North America.
Acrypet®The main characteristics of IR D30 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	1.17	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/3.8 kg)	3.6	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)	65		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength [1]	51.0	MPa	ASTM D638
Tensile Elongation [2] (Break)	80	%	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)	20	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (1.8 MPa, Unannealed)	86.0	°C	ASTM D648
Vicat Softening Temperature	101	°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: >10^16 ohmVolume Resistivity, JIS K6911: >10^15 ohm-cmDielectric Breakdown Strength: 18 kV/mmDielectric Constant, 60Hz: 3.8Dielectric Loss Tangent, 60Hz: 0.04Arc Resistance, JIS K6911: No Trace

NOTE	
1.	Type 1
2.	Type 1

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

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Phone: +86 13424755533

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WECHAT