

Technical Data

Product Description

Acrypet® VH is a Polymethyl Methacrylate Acrylic material. It is available in North America.

Important attributes of Acrypet® VH are:

- Chemical Resistant
- Clarity
- Good Aesthetics
- · Good Weather Resistance
- High Hardness

Typical applications include:

- Automotive
- Appliances
- · Electrical/Electronic Applications
- · Optics/Lenses

General		
Material Status	Commercial: Active	
UL Yellow Card ¹	E54695-244824E256044-101328773E95683-101677765	
Search for UL Yellow Card	Mitsubishi Rayon America Inc.Acrypet®	
Availability	North America	
Features	Good Chemical ResistanceGood Weather ResistanceHigh ClarityHigh Hardness	Pleasing Surface Appearance
Uses	 Appliances Automotive Applications Electrical/Ele	
Forms	Pellets	

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)	2.0 g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.20 to 0.60 %	ASTM D955
Water Absorption (24 hr)	0.30 %	ASTM D570
Mechanical	Nominal Value Unit	Test Method
Tensile Strength ³	72.4 MPa	ASTM D638
Tensile Elongation ³ (Break)	5.0 %	ASTM D638
Flexural Modulus (6.35 mm)	3140 MPa	ASTM D790
Flexural Strength (6.35 mm)	108 MPa	ASTM D790
Compressive Strength	108 MPa	ASTM D695
Impact	Nominal Value Unit	Test Method
Notched Izod Impact (6.35 mm)	17 J/m	ASTM D256
Hardness	Nominal Value Unit	Test Method
Rockwell Hardness (M-Scale)	100	ASTM D785
Thermal	Nominal Value Unit	Test Method
Deflection Temperature Under Load		ASTM D648
1.8 MPa, Unannealed	102 °C	
Vicat Softening Temperature	116 °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



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Optical	Nominal Value Unit	Test Method
Transmittance (3200 μm)	93.0 %	ASTM D1003

Additional Information

Surface Resistivity, JIS K6911: >10^16 ohm Volume Resistivity, JIS K6911: >10^15 ohm-cm Dielectric Breakdown Strength: 20 kV/mm Dielectric Constant, 60Hz: 3.7

Dielectric Loss Tangent, 60Hz: 0.05 Arc Resistance, JIS K6911: No Trace

Notes

¹ A UL Yellow Card contains UL-verified flammability and electrical characteristics. UL Prospector continually works to link Yellow Cards to individual plastic materials in Prospector, however this list may not include all of the appropriate links. It is important that you verify the association between these Yellow Cards and the plastic material found in Prospector. For a complete listing of Yellow Cards, visit the UL Yellow Card Search.

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² Typical properties: these are not to be construed as specifications.

³ Type I

Acrypet® VH

Polymethyl Methacrylate Acrylic Mitsubishi Rayon America Inc.

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Where to Buy

Supplier

Mitsubishi Rayon America Inc. New York, NY USA Telephone: 212-223-3043 Web: http://www.mrany.com/

Distributor

EnCom, Inc.

Telephone: 866-481-7700

Web: http://www.encompolymers.com/

Availability: North America

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