

# ACRYPET® VR S40

Polymethyl Methacrylate Acrylic  
Mitsubishi Rayon Co., Ltd.

Message:

Acrypet® VR S40 is a polymethyl methacrylate-acrylic material. This product is available in North America.  
Acrypet® The main features of VR S40 are:  
high hardness  
beautiful  
good weather resistance  
chemical resistance  
Transparency  
Typical application areas include:  
Electrical/electronic applications  
electrical appliances  
optics/lens  
Automotive Industry

General Information			
UL YellowCard	E256044-100422218	E95683-101677766	E54695-244825
Features	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 <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/3.8 kg)	7.8	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)	59		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>1</sup>	43.4	MPa	ASTM D638
Tensile Elongation <sup>2</sup> (Break)	90	%	ASTM D638
Flexural Modulus (6.35 mm)	1960	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)	110	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	82.0	°C	ASTM D648
Vicat Softening Temperature	97.0	°C	ASTM D1525
CLTE - Flow	9.0E-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: 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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