

ACRYPET® VHS

Polymethyl Methacrylate Acrylic
Lucite International Holland BV

Message:

ACRYPET® VHS is a polymethyl methacrylate-acrylic material. This product is available in Europe.

General Information			
Physical	Nominal Value	Unit	Test Method
Density	1.19	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/3.8 kg)	6.0	g/10 min	ISO 1133
Spiral Flow			Internal method
-- ¹	19.0	cm	Internal method
-- ²	31.0	cm	Internal method
Molding Shrinkage	0.20 - 0.60	%	Internal method
Water Absorption (23°C, 24 hr)	0.30	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	100		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress	66.0	MPa	ISO 527-2/1A/5
Tensile Strain (Break)	3.0	%	ISO 527-2/1A/5
Flexural Modulus	3300	MPa	ISO 178
Flexural Stress	125	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	1.3	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength	19	kJ/m ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	100	°C	ISO 75-2/A
Vicat Softening Temperature	107	°C	ISO 306/B
CLTE - Flow	6.0E-5	cm/cm/°C	ASTM D696
Specific Heat	1500	J/kg/°C	JIS K7123
Thermal Conductivity	0.20	W/m/K	ASTM C177
Optical	Nominal Value	Unit	Test Method
Refractive Index	1.490		ASTM D542
Transmittance (Total, 3000 µm)	93.0	%	ISO 13468
Haze (3000 µm)	0.30	%	ISO 14782
NOTE			
1.	Melt temperature: 230°C		
2.	Melt temperature: 250°C		

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