

ACRYPET® IR K304

Polymethyl Methacrylate Acrylic

Mitsubishi Rayon Co., Ltd.

Message:

ACRYPET® IR K304 is a polymethyl methacrylate-acrylic material. This product is available in North America or Asia Pacific.

ACRYPET® The main characteristics of IR K304 are:

Impact modification

UV stability

General Information			
Additive	Impact modifier		
	UV stabilizer		
Features	Impact modification		
Physical	Nominal Value	Unit	Test Method
Density	1.17	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/3.8 kg)	3.0	g/10 min	ISO 1133
Spiral Flow			Internal method
-- ¹	15.0	cm	Internal method
-- ²	27.0	cm	Internal method
Molding Shrinkage	0.30 - 0.70	%	Internal method
Water Absorption (23°C, 24 hr)	0.30	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	80		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2300	MPa	ISO 527-2/1A/1
Tensile Stress	65.0	MPa	ISO 527-2/1A/5
Tensile Strain (Break)	19	%	ISO 527-2/1A/5
Flexural Modulus	2400	MPa	ISO 178
Flexural Stress	98.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	2.6	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength	43	kJ/m ²	ISO 179/1eU
Notched Izod Impact	2.9	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	93.0	°C	ISO 75-2/A
Vicat Softening Temperature	98.0	°C	ISO 306/B
CLTE - Flow	8.0E-5	cm/cm/°C	ASTM D696
Specific Heat	1500	J/kg/°C	JIS K7123
Thermal Conductivity	0.20	W/m/K	ASTM C177

Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.0E+16	ohms	JIS K6911
Volume Resistivity	> 1.0E+15	ohms·cm	JIS K6911
Dielectric Strength ³	20	kV/mm	JIS K6911
Dielectric Constant (60 Hz)	3.70		JIS K6911
Dissipation Factor (60 Hz)	0.050		JIS K6911
Optical	Nominal Value	Unit	Test Method
Refractive Index	1.490		ASTM D542
Transmittance (Total, 3000 μm)	92.0	%	ISO 13468
Haze (3000 μm)	0.50	%	ISO 14782
NOTE			
1.	Melt temperature: 230°C		
2.	Melt temperature: 250°C		
3.	4000 V/sec		

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