

PARAPET GR00100

Polymethyl Methacrylate Acrylic

Kuraray Co., Ltd.

Message:

PARAPET GR00100 is a polymethyl methacrylate-acrylic material. This product is available in North America, Europe or Asia Pacific. The main characteristics of PARAPET GR00100 are: flame retardant/rated flame.

General Information			
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Density	1.19	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/3.8 kg)	1.5	g/10 min	ISO 1133
Molding Shrinkage	0.20 - 0.60	%	ISO 294-4
Water Absorption (23°C, 24 hr)	0.30	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	44		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1700	MPa	ISO 527-2/1A/1
Tensile Stress (Break)	40.0	MPa	ISO 527-2/1A/5
Tensile Strain (Break)	60	%	ISO 527-2/1A/5
Flexural Modulus	1800	MPa	ISO 178
Flexural Stress	62.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	6.5	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength	91	kJ/m ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Annealed)	83.0	°C	ISO 75-2/A
Vicat Softening Temperature	90.0	°C	ISO 306/B50
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+16	ohms	IEC 60093
Volume Resistivity	1.0E+15	ohms · cm	IEC 60093
Dielectric Strength	20	kV/mm	IEC 60243-1
Dielectric Constant (60 Hz)	4.00		IEC 60250
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94
Optical	Nominal Value		Test Method
Refractive Index	1.490		ISO 489
Additional Information			
Light Transmission, ISO 13468-1, 3 mm: >91%Haze, ISO 14782, 3 mm: <1.8%			
Injection	Nominal Value	Unit	

Drying Temperature	75.0 - 85.0	°C
Drying Time	4.0 - 6.0	hr
Rear Temperature	220 - 260	°C
Middle Temperature	220 - 260	°C
Front Temperature	220 - 260	°C
Mold Temperature	50.0 - 80.0	°C
Injection Pressure	70.0 - 150	MPa

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