

# PARAPET GR04970

Polymethyl Methacrylate Acrylic

Kuraray Co., Ltd.

## Message:

PARAPET GR04970 is a polymethyl methacrylate-acrylic material. This product is available in North America, Europe or Asia Pacific. The main characteristics of PARAPET GR04970 are: flame retardant/rated flame.

| General Information                                                     |               |                   |                |
|-------------------------------------------------------------------------|---------------|-------------------|----------------|
| Forms                                                                   | Particle      |                   |                |
| Physical                                                                | Nominal Value | Unit              | Test Method    |
| Density                                                                 | 1.19          | g/cm <sup>3</sup> | ISO 1183       |
| Melt Mass-Flow Rate (MFR) (230°C/3.8 kg)                                | 3.0           | 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)                                             | 68            |                   | ISO 2039-2     |
| Mechanical                                                              | Nominal Value | Unit              | Test Method    |
| Tensile Modulus                                                         | 2100          | MPa               | ISO 527-2/1A/1 |
| Tensile Stress (Break)                                                  | 48.0          | MPa               | ISO 527-2/1A/5 |
| Tensile Strain (Break)                                                  | 50            | %                 | ISO 527-2/1A/5 |
| Flexural Modulus                                                        | 2200          | MPa               | ISO 178        |
| Flexural Stress                                                         | 78.0          | MPa               | ISO 178        |
| Impact                                                                  | Nominal Value | Unit              | Test Method    |
| Charpy Notched Impact Strength                                          | 4.5           | kJ/m <sup>2</sup> | ISO 179/1eA    |
| Charpy Unnotched Impact Strength                                        | 71            | kJ/m <sup>2</sup> | ISO 179/1eU    |
| Thermal                                                                 | Nominal Value | Unit              | Test Method    |
| Heat Deflection Temperature (1.8 MPa, Annealed)                         | 86.0          | °C                | ISO 75-2/A     |
| Vicat Softening Temperature                                             | 93.0          | °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: <1.5% |               |                   |                |
| 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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