

# PALGLAS® R 07

Polymethyl Methacrylate Acrylic  
pal plast GmbH

Message:

PALGLAS® R 07 is a polymethyl methacrylate-acrylic acid product. It is available in Europe. Typical application areas are: electrical appliances.  
Features include:  
flame retardant/rated flame  
Heat resistance

| General Information                     |                         |       |                |
|-----------------------------------------|-------------------------|-------|----------------|
| Features                                | Good liquidity          |       |                |
|                                         | Heat resistance, medium |       |                |
| Uses                                    | Electrical appliances   |       |                |
| Forms                                   | Particle                |       |                |
| Physical                                | Nominal Value           | Unit  | Test Method    |
| Density                                 | 1.19                    | g/cm³ | ISO 1183       |
| Water Absorption                        |                         |       | ISO 62         |
| Saturated, 23°C                         | 2.0                     | %     | ISO 62         |
| Equilibrium, 23°C, 50% RH               | 0.60                    | %     | ISO 62         |
| Mechanical                              | Nominal Value           | Unit  | Test Method    |
| Tensile Modulus (23°C)                  | 3000                    | MPa   | ISO 527-2/1A/1 |
| Tensile Stress (Break, 23°C)            | 70.0                    | MPa   | ISO 527-2/1A/5 |
| Tensile Strain (Break, 23°C)            | 3.5                     | %     | ISO 527-2/1A/5 |
| Impact                                  | Nominal Value           | Unit  | Test Method    |
| Charpy Unnotched Impact Strength (23°C) | 18                      | kJ/m² | ISO 179/1eU    |
| Thermal                                 | Nominal Value           | Unit  | Test Method    |
| Vicat Softening Temperature             | 102                     | °C    | ISO 306/B50    |
| Electrical                              | Nominal Value           | Unit  | Test Method    |
| Comparative Tracking Index (Solution A) | 600                     | V     | IEC 60112      |
| Flammability                            | Nominal Value           | Unit  | Test Method    |
| Flame Rating (1.60 mm)                  | HB                      |       | UL 94          |

| Additional Information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |  |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|
| Tensile Modulus, ISO 527, 23°C, 1 mm/min, Type A: 2900 to 3100 MPaTensile Stress at Break, ISO 527, 23°C, 5 mm/min, Type A: 68 to 72 MPaTensile Strain at Break, ISO 527, 23°C, 5 mm/min, Type A: 2 to 5 %Charpy Unnotched Impact, ISO 179, Type 1, Edgewise, 23°C: 15 to 20 kJ/m²Vicat Softening Temperature, ISO 306, B50 (50°C/h 50N): 100 to 103 °CDensity, ISO 1183: 1.18 to 1.2 g/cm³Water Absorption, ISO 62, 23°C, Saturation: 1.9 to 2.1 %Moisture Absorption, ISO 62, 23°C, 50% RH: 0.5 to 0.7 % |  |  |  |

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