

# Kepamid® 2440GM7

Polyamide 66

Korea Engineering Plastics Co., Ltd

# PROSPECTOR®

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## Technical Data

### Product Description

- KEPAMID 2440GM7 is a glass fiber/mineral 38% reinforced PA66 grade.
- It has high stiffness, good heat resistance and low warp characteristics.
- It is suitable for automotive, electrical & electronics and industrial parts.

### General

Material Status	• Commercial: Active
Literature <sup>1</sup>	• <a href="#">Technical Datasheet (English)</a>
Search for UL Yellow Card	• <a href="#">Korea Engineering Plastics Co., Ltd</a> • <a href="#">Kepamid®</a>
Availability	• Asia Pacific • Europe • North America
Filler / Reinforcement	• Glass Fiber\Mineral, 38% Filler by Weight
Features	• Good Heat Resistance • High Stiffness • Low Warpage
Uses	• Automotive Applications • Industrial Applications • Electrical/Electronic Applications • Industrial Parts
RoHS Compliance	• RoHS Compliant
Processing Method	• Injection Molding

Physical	Nominal Value Unit	Test Method
Density	1.46 g/cm <sup>3</sup>	ISO 1183
Water Absorption (Equilibrium, 23°C, 50% RH)	0.40 to 0.80 %	ISO 62

Mechanical	Nominal Value Unit	Test Method
Tensile Modulus	9500 MPa	ISO 527-1
Tensile Stress	110 MPa	ISO 527-2
Tensile Strain (Break)	2.4 %	ISO 527-2
Flexural Modulus	9250 MPa	ISO 178
Flexural Stress	175 MPa	ISO 178

Impact	Nominal Value Unit	Test Method
Charpy Notched Impact Strength (23°C)	5.0 kJ/m <sup>2</sup>	ISO 179/1eA

Hardness	Nominal Value Unit	Test Method
Rockwell Hardness (R-Scale)	113	ISO 2039-2

Thermal	Nominal Value Unit	Test Method
Deflection Temperature Under Load		
0.45 MPa, Unannealed	240 °C	ISO 75-2/B
1.8 MPa, Unannealed	210 °C	ISO 75-2/A
Melting Temperature <sup>3</sup>	260 °C	ISO 11357-3

Electrical	Nominal Value Unit	Test Method
Volume Resistivity	1.0E+16 ohms·cm	IEC 60093
Relative Permittivity (1 MHz)	3.50	IEC 60250

Flammability	Nominal Value Unit	Test Method
Flame Rating (0.8 mm)	HB	UL 94



Injection	Nominal Value Unit
Drying Temperature	
--	90 °C
Dry Air Dryer	80 °C
Drying Time	
--	6.0 to 8.0 hr
Dry Air Dryer	4.0 to 6.0 hr
Suggested Max Moisture	0.050 %
Hopper Temperature	60 to 80 °C
Rear Temperature	280 °C
Middle Temperature	285 °C
Front Temperature	285 °C
Nozzle Temperature	290 °C
Mold Temperature	70 to 90 °C
Back Pressure	0.490 to 0.981 MPa
Screw Speed	80 to 120 rpm

**Notes**

<sup>1</sup> These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

<sup>2</sup> Typical properties: these are not to be construed as specifications.

<sup>3</sup> 10°C/min

