

# Bergamid™ B70 red RAL3001 Polyamide 6

## **Key Characteristics**

General				
Material Status	Commercial: Active			
Regional Availability	<ul> <li>Africa &amp; Middle East</li> </ul>	<ul> <li>Asia Pacific</li> </ul>	• Europe	
RoHS Compliance	<ul> <li>RoHS Compliant</li> </ul>			
Forms	Pellets			

### Technical Properties 1

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Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density <sup>2</sup>	1.13 g/cm <sup>3</sup>	1.13 g/cm³	DIN 53479
K-Value <sup>3</sup>	74.0 to 78.0	74.0 to 78.0	
/lechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus (73°F (23°C))	160000 psi	1100 MPa	ISO 527-2/1
Tensile Stress (Yield, 73°F (23°C))	7250 psi	50.0 MPa	ISO 527-2/50
Tensile Strain (Yield, 73°F (23°C))	22 %	22 %	ISO 527-2/50
mpact	Typical Value (English)	Typical Value (SI)	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-22°F (-30°C)	5.0 ft·lb/in²	11 kJ/m²	
73°F (23°C)	60 ft·lb/in²	130 kJ/m²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-22°F (-30°C)	No Break	No Break	
73°F (23°C)	No Break	No Break	
hermal	Typical Value (English)	Typical Value (SI)	Test Method
Heat Deflection Temperature			ISO 75-2/B
66 psi (0.45 MPa), Unannealed	338 °F	170 °C	
Heat Deflection Temperature			ISO 75-2/A
264 psi (1.8 MPa), Unannealed	149 °F	65.0 °C	
Maximum Use Temperature			IEC 60216
4	167 °F	75 °C	
Short Time	347 °F	175 °C	
Melting Temperature (DSC)	433 °F	223 °C	ISO 3146
lectrical	Typical Value (English)	Typical Value (SI)	Test Method
Surface Resistivity	1.0E+13 ohms	1.0E+13 ohms	IEC 60093
Volume Resistivity	1.0E+15 ohms·cm	1.0E+15 ohms·cm	IEC 60093
Electric Strength	1500 V/mil	60 kV/mm	IEC 60243-1
Relative Permittivity (1 MHz)	7.00	7.00	IEC 60250
Dissipation Factor (1 MHz)	0.30	0.30	IEC 60250
Comparative Tracking Index (Solution A)	600 V	600 V	IEC 60112

#### **Notes**

- <sup>1</sup> Typical values are not to be construed as specifications.
- <sup>2</sup> ±0.03 g/cm<sup>3</sup>
- 3 96% H2SO4

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<sup>&</sup>lt;sup>4</sup> Continuous (GTP 50% Tensile)

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