

# Bergamid™ B70 TM-Y BK138 Polyamide 6

# **Key Characteristics**

Product Description	
Impact modified, High heat re-	sistance
General	
Material Status	Commercial: Active
Regional Availability	Asia Pacific
Additive	Impact Modifier
Features	High Heat Resistance Impact Modified
Appearance	• Black
Processing Method	Injection Molding

## Technical Properties 1

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Physical	Typical Value (English)	Typical Value (SI)	Test Method
Specific Gravity	1.10	1.10	ASTM D792
Molding Shrinkage - Flow	0.012 to 0.016 in/in	1.2 to 1.6 %	ASTM D955
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Strength <sup>2</sup>	8700 psi	60.0 MPa	ASTM D638
Flexural Modulus <sup>3</sup>	297000 psi	2050 MPa	ASTM D790
Flexural Strength <sup>3</sup>	10200 psi	70.0 MPa	ASTM D790
mpact	Typical Value (English)	Typical Value (SI)	Test Method
Notched Izod Impact			ASTM D256
73°F (23°C), 0.126 in (3.20 mm)	6.6 ft·lb/in	350 J/m	
Thermal Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
264 psi (1.8 MPa), Unannealed, 0.126 in (3.20 mm)	149°F	65.0 °C	
Electrical	Typical Value (English)	Typical Value (SI)	Test Method
Surface Resistivity	1.0E+15 ohms	1.0E+15 ohms	ASTM D257
-lammability	Typical Value (English)	Typical Value (SI)	Test Method
Flame Rating (0.06 in (1.6 mm))	НВ	HB	UL 94

# **Processing Information**

Injection	Typical Value (English)	Typical Value (SI)	
Drying Temperature	176 to 194 °F	80.0 to 90.0 °C	
Drying Time	4.0 hr	4.0 hr	
Rear Temperature	464 to 536 °F	240 to 280 °C	
Middle Temperature	464 to 536 °F	240 to 280 °C	
Front Temperature	464 to 536 °F	240 to 280 °C	
Mold Temperature	149 to 185 °F	65.0 to 85.0 °C	

# Injection Notes

Injection Pressure: MED-HIGH Hold Pressure: MED-HIGH Screw Speed: MODERATE Back Pressure: LOW

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- <sup>1</sup> Typical values are not to be construed as specifications.
- <sup>2</sup> 2.0 in/min (50 mm/min)
- <sup>3</sup> 0.051 in/min (1.3 mm/min)

### **CONTACT INFORMATION**

#### Americas

United States - Avon Lake +1 440 930 1000

United States - McHenry +1 815 385 8500

China - Guangzhou +86 20 8732 7260

China - Shenzhen +86 755 2969 2888

China - Suzhou +86 512 6823 24 38 China - Suzhou +86 512 6265 2600 Hong Kong -+852 2690 5332

Taiwan - Yonghe City, +886 9396 99740, +886 2929 1849

#### Europe

Germany - Gaggenau +49 7225 6802 0 Spain - Barbastro (Huesca) +34 974 310 314

Beyond Polymers.

Better Business Solutions. SM

www.polyone.com

## **PolyOne Americas**

33587 Walker Road Avon Lake, Ohio 44012 **United States** 

+1 440 930 1000

+1 866 POLYONE

## PolyOne Asia

+86 21 5080 1188

No. 88 Guoshoujing Road Z.J Hi-tech Park, Pudong Shanghai, 201203, China

## PolyOne Europe 6 Giällewee

+352 269 050 35

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