



Gravi-Tech™ GRV-UR-030-SS-BLK

Polyurethane Thermoset Elastomer, Polyester Based

Key Characteristics

General			
Material Status	• Commercial: Active		
Regional Availability	• North America		
Features	• High Density	• Non-Toxic	
Uses	• Industrial Applications • Medical/Healthcare Applications	• Projectiles • Sporting Goods	• Weighting & Balancing
Forms	• Pellets		
Processing Method	• Injection Molding		

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Specific Gravity	3.00	3.00	ASTM D792
Molding Shrinkage - Flow	4.0E-5 to 9.0E-5 in/in	4.0E-3 to 9.0E-3 %	ASTM D955
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Flexural Modulus	65000 psi	448 MPa	ASTM D790
Flexural Strength ² (Yield)	2120 psi	14.6 MPa	ASTM D790
Elastomers	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Strength	1680 psi	11.6 MPa	ASTM D412
Tensile Elongation (Break)	120 %	120 %	ASTM D412
Hardness	Typical Value (English)	Typical Value (SI)	Test Method
Durometer Hardness (Shore D, 10 sec)	54	54	ASTM D2240

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Drying Temperature	180 °F	82.2 °C
Drying Time	2.0 to 3.0 hr	2.0 to 3.0 hr
Suggested Max Moisture	0.010 to 0.030 %	0.010 to 0.030 %
Rear Temperature	330 to 340 °F	166 to 171 °C
Middle Temperature	350 to 360 °F	177 to 182 °C
Front Temperature	360 to 370 °F	182 to 188 °C
Nozzle Temperature	380 to 390 °F	193 to 199 °C
Mold Temperature	60.0 to 140 °F	15.6 to 60.0 °C

Notes

¹ Typical values are not to be construed as specifications.

² 0.50 in/min (13 mm/min)

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CONTACT INFORMATION**Americas**

United States - Avon Lake
+1 440 930 1000

United States - McHenry
+1 815 385 8500

Asia

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

No. 88 Guoshoujing Road
Z.J Hi-tech Park, Pudong
Shanghai, 201203, China
+86 21 5080 1188

PolyOne Europe

6 Giällewee
+352 269 050 35

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