

Gravi-Tech™ GRV-NP-110-W-NAT

Polyamide 12
PolyOne Corporation

Message:

Gravi-Tech™ GRV-NP-110-W-NAT is a Polyamide 12 (Nylon 12) product. It can be processed by injection molding and is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America. Applications of Gravi-Tech™ GRV-NP-110-W-NAT include industrial applications, medical/healthcare and sporting goods.

Characteristics include:

Impact Modified

Non-Toxic

General Information			
Additive	Impact Modifier		
Features	High Density		
	Impact Modified		
	Non-Toxic		
Uses	Industrial Applications		
	Medical/Healthcare Applications		
	Projectiles		
	Radiation Shielding		
	Sporting Goods		
	Weighting & Balancing		
Appearance	Natural Color		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	11.0	g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.40 to 0.60	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹	8270	MPa	ASTM D638
Tensile Strength ² (Yield)	27.2	MPa	ASTM D638
Tensile Elongation ³ (Break)	1.8	%	ASTM D638
Flexural Modulus	5520	MPa	ASTM D790
Flexural Strength	48.3	MPa	ASTM D790
Poisson's Ratio	0.35		ASTM E132
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm, Injection Molded)	110	J/m	ASTM D256A
Unnotched Izod Impact (23°C, 3.18 mm, Injection Molded)	370	J/m	ASTM D256

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 6.35 mm	138	°C	
1.8 MPa, Unannealed, 6.35 mm	87.8	°C	
CLTE			ASTM E831
Flow : 0 to 32°C	6.3E-5	cm/cm/°C	
Flow : 60 to 100°C	1.0E-4	cm/cm/°C	
Transverse : 0 to 32°C	5.7E-5	cm/cm/°C	
Transverse : 60 to 100°C	8.4E-5	cm/cm/°C	
Thermal Conductivity ⁴	3.5	W/m/K	ASTM C177
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity (3.18 mm)	10 to 1.0E+3	ohms	ASTM D257
Volume Resistivity (3.18 mm)	10 to 1.0E+3	ohms·cm	ASTM D257
Injection	Nominal Value	Unit	
Drying Temperature	79.4	°C	
Drying Time	4.0	hr	
Processing (Melt) Temp	260 to 288	°C	
Mold Temperature	82.2 to 149	°C	
NOTE			
1.	Type I, 5.1 mm/min		
2.	Type I, 5.1 mm/min		
3.	Type I, 5.1 mm/min		
4.	The value listed as thermal conductivity, ASTM C177, was tested in accordance with ASTM E1461.		

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