Gravi-Tech™ GRV AS-020-MN white 1

Acrylonitrile Butadiene Styrene

Key Characteristics

General	
Material Status	• Commercial: Active
Regional Availability	• Europe
Filler / Reinforcement	• Mineral
Features	• High Specific Gravity
Appearance	• White
Forms	• Pellets

Technical Properties [1]

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density	1.95 g/cm³	1.95 g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	8.0 to 12 g/10 min	8.0 to 12 g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (220°C/10.0 kg)	3.5 to 7.0 cm³/10min	3.5 to 7.0 cm³/10min	ISO 1133
Molding Shrinkage - Flow [2]	3.0E-3 to 6.0E-3 in/in	0.30 to 0.60 %	Internal Method
Mechanical	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Tensile Modulus (73°F (23°C))	798000 psi	5500 MPa	ISO 527-1/1
Tensile Stress (Break, 73°F (23°C))	5080 psi	35.0 MPa	ISO 527-2/50
Tensile Strain (Break, 73°F (23°C))	0.60 to 1.0 %	0.60 to 1.0 %	ISO 527-2/50
Flexural Modulus [3] (73°F (23°C))	747000 psi	5150 MPa	ISO 178
Flexural Stress [3] (73°F (23°C))	7250 psi	50.0 MPa	ISO 178
Impact	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Charpy Notched Impact Strength (73°F (23°C))	0.48 ft·lb/in²	1.0 kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
73°F (23°C)	2.4 ft·lb/in²	5.0 kJ/m²	
Flammability	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Flame Rating (0.06 in (1.6 mm))	HB	HB	UL 94

Notes

[1] Typical values are not to be construed as specifications.

[2] measured on Tensile bar

[3] 0.39 in/min (10 mm/min)

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