

Technical Data Sheet

6A50GB-838

Polyamide 6 Reinforced with Glass Fiber

Nirumand Polymer



Nirumand Polymer Co.
Filled & Reinforced Engineering Plastics

Product Description

6A50GB-838 is polyamide 6 reinforced with 50% glass fiber. It provides high mechanical properties, good impact resistance, toughness, stiffness, surface hardness, better dimensional stability, good thermal and chemical resistance. This compound is used in automotive applications, electrical goods and other utility products. This grade is designed to be processed in conventional injection molding process.

General Properties

Material Status	•Commercial: Active
Forms	•Pellets
Processing Method	•Injection molding
Color	•Black

Physical Properties	Value	Unit	Test Method
Density	1.5	gr/cm ³	ISO 1183
Melt Mass-flow Rate (MFR)	gr/10 min	ASTM D1238
Shrinkage	≤ 0.2	%	ASTM D955

Mechanical Properties	Value	Unit	Test Method
Tensile Strength@yield	≥ 130	MPa	ISO 527
Tensile Strength@Break	≥ 130	MPa	ISO 527
Elongation @ Break	6	%	ISO 527
Elastic Modulus	MPa	ISO 527
Flexural Modulus	≥ 7500	MPa	ASTM D790

Impact	Value	Unit	Test Method
Notched Izod Impact (23°C)	≥ 6	kJ/m ²	ISO 180
Notched charpy Impact (23°C)	kJ/m ²	ISO 179

Hardness	Value	Unit	Test Method
Durometer Hardness	80	Shore D	ASTM D2240

◆ Values shown are average & are not to be considered as product specifications.

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