

Grivory® GVN-5H black 9915

Polyamide 66 + PA 6I/X

EMS-GRIVORY

Message:

Grivory® GVN-5H black 9915 is a Polyamide 66 + PA 6I/X (Nylon 66+Nylon 6I/X) material filled with 50% glass fiber. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America for extrusion or injection molding.

Important attributes of Grivory® GVN-5H black 9915 are:

- Flame Rated
- RoHS Compliant
- Good Mold Release
- Heat Stabilizer
- Impact Resistant
- Typical applications include:
 - Automotive
 - Appliances
 - Consumer Goods
 - Electrical/Electronic Applications
 - Engineering/Industrial Parts

General Information	
Filler / Reinforcement	Glass Fiber,50% Filler by Weight
Additive	Heat Stabilizer
Features	Aromatic
	Good Flow
	Good Impact Resistance
	Good Mold Release
	Heat Stabilized
Uses	Appliance Components
	Automotive Applications
	Automotive Exterior Parts
	Automotive Interior Parts
	Consumer Applications
	Electrical/Electronic Applications
	Engineering Parts
	Household Goods
	Hydraulic Applications
	Industrial Applications
	Pneumatic Applications
	Power/Other Tools
	Sporting Goods
RoHS Compliance	RoHS Compliant
Appearance	Black

Forms	Granules			
Processing Method	Extrusion Injection Molding			
Physical	Dry	Conditioned	Unit	Test Method
Density	1.55	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.40	--	%	
Flow	0.10	--	%	
Water Absorption				ISO 62
Saturation, 23°C	4.0	--	%	
Equilibrium, 23°C, 50% RH	1.3	--	%	
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness	265	235	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	15500	14500	MPa	ISO 527-2
Tensile Stress (Break)	220	190	MPa	ISO 527-2
Tensile Strain (Break)	3.0	4.0	%	ISO 527-2
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	14	14	kJ/m ²	
23°C	16	16	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	85	85	kJ/m ²	
23°C	95	95	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
1.8 MPa, Unannealed	240	--	°C	ISO 75-2/A
8.0 MPa, Unannealed	165	--	°C	ISO 75-2/C
Continuous Use Temperature				Internal Method
-- ¹	100 to 120	--	°C	
-- ²	220	--	°C	
Melting Temperature ³	260	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow	1.5E-5	--	cm/cm/°C	
Transverse	9.0E-5	--	cm/cm/°C	
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	--	1.0E+13	ohms	IEC 60093
Volume Resistivity	1.0E+14	1.0E+14	ohms · cm	IEC 60093

Electric Strength	35	35	kV/mm	IEC 60243-1
Comparative Tracking Index	--	575	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flammability Classification (0.800 mm)	HB	--		IEC 60695-11-10, -20
Additional Information	Dry	Conditioned		Test Method
ISO Type	PA66+PA6I/X, MH, 14-160, GF50			ISO 1874
NOTE				
1.	Long Term			
2.	Short Term			
3.	10°C/min			

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