

Grivory® GV-4 FWA black 9225

Polyamide 66 + PA 6I/X

EMS-GRIVORY

Message:

Grivory® GV-4 FWA black 9225 is a Polyamide 66 + PA 6I/X (Nylon 66+Nylon 6I/X) material filled with 40% 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® GV-4 FWA black 9225 are:

- Flame Rated
- RoHS Compliant
- Food Contact Acceptable
- Typical applications include:
 - Plumbing/Piping/Potable Water
 - Food Contact Applications
 - Consumer Goods
 - Engineering/Industrial Parts
 - Household Applications

General Information	
UL YellowCard	E53898-100921574
Filler / Reinforcement	Glass Fiber,40% Filler by Weight
Features	Aromatic
	Food Contact Acceptable
Uses	Consumer Applications
	Engineering Parts
	Household Goods
	Hydraulic Applications
	Industrial Applications
	Pneumatic Applications
Agency Ratings	ACS Unspecified Rating
	DVGW W270
	EU Food Contact, Unspecified Rating
	FDA Food Contact, Unspecified Rating
	KTW Unspecified Rating
	NSF 61
RoHS Compliance	WRAS Unspecified Rating
	RoHS Compliant
Appearance	Black
Forms	Granules
Processing Method	Extrusion
	Injection Molding

Physical	Dry	Conditioned	Unit	Test Method
Density	1.47	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.60	--	%	
Flow	0.10	--	%	
Water Absorption				ISO 62
Saturation, 23°C	4.5	--	%	
Equilibrium, 23°C, 50% RH	1.4	--	%	
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness	255	230	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	14000	13000	MPa	ISO 527-2
Tensile Stress (Break)	230	210	MPa	ISO 527-2
Tensile Strain (Break)	3.0	3.0	%	ISO 527-2
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	11	11	kJ/m ²	
23°C	13	13	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	70	70	kJ/m ²	
23°C	90	90	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
1.8 MPa, Unannealed	235	--	°C	ISO 75-2/A
8.0 MPa, Unannealed	145	--	°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	33	33	kV/mm	IEC 60243-1
Comparative Tracking Index	--	600	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, 14-140, GF40		ISO 1874

NOTE			
1.	Long Term		
2.	Short Term		
3.	10°C/min		

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