Grilamid® XE 4174 black 9992

Polyamide 1010

EMS-GRIVORY

Message:

Grilamid® XE 4174 black 9992 is a Polyamide 1010 (Nylon 1010) material filled with 30% glass fiber. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America for injection molding.
Important attributes of Grilamid® XE 4174 black 9992 are:
Flame Rated
Eco-Friendly/Green
Good UV Resistance
Impact Resistant
Typical applications include:
Automotive
Electrical/Electronic Applications
Appliances
Engineering/Industrial Parts
Household Applications

General Information	
Filler / Reinforcement	Glass Fiber,30% Filler by Weight
Features	Good UV Resistance High Impact Resistance Renewable Resource Content
Uses	Appliance Components Automotive Applications Automotive Electronics Automotive Exterior Parts Automotive Interior Parts Connectors Electrical/Electronic Applications Engineering Parts Household Goods Hydraulic Applications Lighting Applications Medical/Healthcare Applications Outdoor Applications Pneumatic Applications Power/Other Tools Sporting Goods
Appearance	Black
Forms	Granules
Processing Method	Injection Molding

Physical	Dry	Conditioned	Unit	Test Method
Density	1.28	--	g/cm³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	1.0	--	%	
Flow	0.30	--	%	
Water Absorption				ISO 62
Saturation, 23°C	1.6	--	%	
Equilibrium, 23°C, 50% RH	0.70	--	%	
Hardness	**Dry**	**Conditioned**	**Unit**	**Test Method**
Ball Indentation Hardness	150	115	MPa	ISO 2039-1
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Modulus	7800	7200	MPa	ISO 527-2
Tensile Stress (Break)	140	120	MPa	ISO 527-2
Tensile Strain (Break)	4.0	5.0	%	ISO 527-2
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	8.0	8.0	kJ/m²	
23°C	13	13	kJ/m²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	70	60	kJ/m²	
23°C	80	70	kJ/m²	
Thermal	**Dry**	**Conditioned**	**Unit**	**Test Method**
Heat Deflection Temperature				
1.8 MPa, Unannealed	180	--	°C	ISO 75-2/A
8.0 MPa, Unannealed	125	--	°C	ISO 75-2/C
Melting Temperature [1]	200	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow	2.0E-5	--	cm/cm/°C	
Transverse	1.1E-4	--	cm/cm/°C	
Electrical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Surface Resistivity	--	1.0E+12	ohms	IEC 60093
Volume Resistivity	1.0E+13	1.0E+13	ohms·cm	IEC 60093
Electric Strength	40	40	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	PA1010, MHR, 14-080, GF30	--		ISO 1874

NOTE	
1.	10°C/min

Recommended distributors for this material

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