

Grilamid® XE 4074 nat

Polyamide 612

EMS-GRIVORY

Message:

Grilamid®XE 4074 nat is a polyamide 612 (nylon 6/12) material containing glass beads. This product is available in North America, Africa and the Middle East, Latin America, Europe or Asia Pacific. The processing method is injection molding.

Grilamid®The main features of XE 4074 nat are:

flame retardant/rated flame

accessible food

Typical application areas include:

Water pipes/pipes/drinking water

food contact applications

industrial applications

Consumer goods

General Information				
Filler / Reinforcement		Glass beads		
Features		Hydrolysis resistance		
		Compliance of Food Exposure		
Uses		Industrial application		
		Consumer goods application field		
Agency Ratings		ACS not rated		
		DVGW W270		
		FDA Food Exposure, Not Rated		
		KTW not rated		
		NSF 61		
		WRAS not rated		
		European food contact, not rated		
Appearance		Natural color		
Forms		Particles		
Processing Method		Injection molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.49	--	g/cm ³	ISO 1183
Water Absorption				ISO 62
Saturated, 23°C	1.1	--	%	ISO 62
Equilibrium, 23°C, 50% RH	0.50	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	3700	3000	MPa	ISO 527-2
Tensile Stress (Break)	50.0	50.0	MPa	ISO 527-2

Tensile Strain (Break)	10	10	%	ISO 527-2
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	4.0	4.0	kJ/m ²	ISO 179/1eA
23°C	5.0	4.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	40	40	kJ/m ²	ISO 179/1eU
23°C	65	60	kJ/m ²	ISO 179/1eU
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
1.8 MPa, not annealed	80.0	--	°C	ISO 75-2/A
8.0 MPa, not annealed	50.0	--	°C	ISO 75-2/C
Continuous Use Temperature				
-- ¹	90.0 - 120	--	°C	ISO 2578
-- ²	150	--	°C	Internal method
Melting Temperature ³	178	--	°C	ISO 11357-3
Linear thermal expansion coefficient				ISO 11359-2
Flow	7.0E-5	--	cm/cm/°C	ISO 11359-2
Lateral	7.0E-5	--	cm/cm/°C	ISO 11359-2
Flammability	Dry	Conditioned		Test Method
Flammability Classification (0.8 mm)	HB	--		IEC 60695-11-10, -20
NOTE				
1.	Long Term			
2.	Short Term			
3.	10°C/min			

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