NILAMID® XS3 J05 GF50

Polyamide

Nilit Plastics

Message:

SPECIALTY PARTIALLY AROMATIC POLYAMIDE BLEND
DEVELOPED AS ALTERNATIVE TO METAL
GOOD STIFFNESS AND TENSILE STRENGTH
VERY LOW WARPAGE
VERY GOOD CREEP RESISTANCE
EXCELLENT SURFACE QUALITY
HIGH DIMENSIONAL STABILITY
PERFORMANCE INDEPENDENT FROM ENVIRONMENTAL CONDITIONS
PARTIALLY AROMATIC PA, 50% GLASS FIBER REINFORCED, IMPACT MODIFIED

General Information				
Filler / Reinforcement		Glass fiber reinforced material, 50% filler by weight		
Additive		Impact modifier		
Features		Impact modification		
Physical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Density (23°C)	1.52	--	g/cm³	ISO 1183
Molding Shrinkage				ISO 294-4
Transverse flow: 23°C	0.40	--	%	ISO 294-4
Flow: 23°C	0.080	--	%	ISO 294-4
Water Absorption				ISO 62
23°C, 24 hr	0.60	--	%	ISO 62
Saturated, 23°C	4.0	--	%	ISO 62
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Modulus (23°C)	16500	15500	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	210	185	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	3.5	4.0	%	ISO 527-2
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Charpy Notched Impact Strength (23°C)	14	--	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	110	100	kJ/m²	ISO 179/1eU
Notched Izod Impact (23°C)	14	16	kJ/m²	ISO 180/A
Thermal	**Dry**	**Conditioned**	**Unit**	**Test Method**
Heat Deflection Temperature [1] (1.8 MPa, Unannealed)	215	--	°C	ISO 75-2/A
Continuous Use Temperature [2]	120	--	°C	IEC 60216
Electrical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Surface Resistivity [3]	1.0E+13	--	ohms	IEC 60093

Volume Resistivity (23°C)	1.0E+14	--	ohms·cm	IEC 60093
Dielectric Strength (2.00 mm)	32	--	kV/mm	IEC 60243-1
Comparative Tracking Index (3.20 mm, Solution A)	600	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating				UL 94
0.40 mm	HB	--		UL 94
0.8 mm	HB	--		UL 94
1.6 mm	HB	--		UL 94
3.2 mm	HB	--		UL 94

NOTE	
1.	Method B
2.	2000 hr
3.	23°C

Recommended distributors for this material

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