Miramid® FB30C

Polyamide 6

BASF Leuna GmbH

Message:

Miramid® FB30C is a Polyamide 6 (Nylon 6) material filled with 30% glass bead. It is available in Europe for injection molding.
Important attributes of Miramid® FB30C are:
Chemical Resistant
Crystalline
Good Aesthetics
Good Dimensional Stability
Good Stiffness
Typical applications include:
Engineering/Industrial Parts
Housings

General Information	
Filler / Reinforcement	Glass Bead,30% Filler by Weight
Additive	Mold Release
Features	Crystalline
	Fuel Resistant
	Good Dimensional Stability
	Good Flow
	Good Stiffness
	Good Surface Finish
	Grease Resistant
	Low Warpage
	Oil Resistant
	Solvent Resistant
Uses	Engineering Parts
	Housings
Forms	Granules
Processing Method	Injection Molding
Multi-Point Data	Isothermal Stress vs. Strain (ISO 11403-1)
	Secant Modulus vs. Strain (ISO 11403-1)

Physical	Dry	Conditioned	Unit	Test Method
Density	1360	--	kg/m³	ISO 1183 [1]
Water Absorption				ISO 62 [2]
Saturation	6.3	--	%	
Equilibrium	1.8	--	%	
Viscosity number	150	--	cm³/g	ISO 307, 1157, 1628 [3]

Mechanical	Dry	Conditioned	Unit	Test Method
Tensile modulus	4100	1200	MPa	ISO 527-2 [4]
Tensile Stress (Break)	75.0	40.0	MPa	ISO 527-2 [5]
Tensile Strain (Break)	15	60	%	ISO 527-2 [6]
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Charpy notched impact strength				ISO 179/1eA [7]
-30°C	3.00	--	kJ/m²	
23°C	3.00	9.00	kJ/m²	
Charpy impact strength				ISO 179/1eU [8]
-30°C	30.0	--	kJ/m²	
23°C	40.0	--	kJ/m²	
Thermal	**Dry**	**Conditioned**	**Unit**	**Test Method**
Deflection Temperature Under Load				ISO 75-2 [9]
0.45 MPa	180	--	°C	
1.8 MPa	70.0	--	°C	
Melting Temperature (DSC)	220	--	°C	ISO 3146
Electrical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Volume resistivity	1.0E+13	1.0E+10	ohms·m	IEC 60093 [10]
Dielectric Constant (1 MHz)	3.50	6.20		IEC 60250
Dissipation Factor (1 MHz)	0.020	0.20		IEC 60250 [11]
Comparative tracking index	500	--		IEC 60112 [12]

NOTE	
1.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.
2.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.
3.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.
4.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.
5.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.
6.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.
7.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.
8.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.

9.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.
10.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.
11.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.
12.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.

Recommended distributors for this material

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