Miramid® FX30C

Polyamide 6

BASF Leuna GmbH

Message:

Miramid® FX30C is a Polyamide 6 (Nylon 6) material filled with 30% mineral. It is available in Europe for injection molding.
Important attributes of Miramid® FX30C are:
Chemical Resistant
Crystalline
Good Aesthetics
Good Dimensional Stability
Good Stiffness
Typical applications include:
Automotive
Electrical/Electronic Applications
Housings

General Information	
Filler / Reinforcement	Mineral,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	Automotive Applications Connectors 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	1380	--	kg/m³	ISO 1183 [1]
Water Absorption				ISO 62 [2]
Saturation	6.3	--	%	

Equilibrium	2.0	--	%	
Viscosity number	150	--	cm^3/g	ISO 307, 1157, 1628 [3]
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile modulus	4500	1500	MPa	ISO 527-2 [4]
Tensile Stress (Break)	85.0	45.0	MPa	ISO 527-2 [5]
Tensile Strain (Break)	10	50	%	ISO 527-2 [6]
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Charpy notched impact strength				ISO 179/1eA [7]
-30°C	3.00	--	kJ/m^2	
23°C	3.50	5.00	kJ/m^2	
Charpy impact strength				ISO 179/1eU [8]
-30°C	No Break	--		
23°C	No Break	No Break		
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	450	--		IEC 60112 [12]
Injection	**Dry**	**Unit**		
Processing (Melt) Temp	260 to 290		°C	
Mold Temperature	80.0 to 100		°C	
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

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

WECHAT