Miramid® DK2010CW

Polyamide 6

BASF Leuna GmbH

Message:

Miramid® DK2010CW is a Polyamide 6 (Nylon 6) material filled with 10% glass fiber and 20% mineral. It is available in Europe for injection molding.
Important attributes of Miramid® DK2010CW are:
Chemical Resistant
Crystalline
Good Aesthetics
Good Dimensional Stability
Good Stiffness
Typical applications include:
Automotive
Engineering/Industrial Parts

General Information	
Filler / Reinforcement	Glass Fiber,10% Filler by Weight Mineral,20% Filler by Weight
Additive	Heat Stabilizer Mold Release
Features	Crystalline Fuel Resistant Good Dimensional Stability Good Flow Good Stiffness Good Surface Finish Grease Resistant Heat Stabilized Low Warpage Oil Resistant Solvent Resistant
Uses	Automotive Under the Hood Engineering Parts
Forms	Granules
Processing Method	Injection Molding

Physical	Dry	Conditioned	Unit	Test Method
Density	1350	--	kg/m³	ISO 1183 [1]
Water Absorption				ISO 62 [2]
Saturation	6.3	--	%	

Equilibrium	1.8	--	%	
Viscosity number	145	--	cm^3/g	ISO 307, 1157, 1628 [3]
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile modulus	6200	3000	MPa	ISO 527-2 [4]
Tensile Stress (Break)	100	55.0	MPa	ISO 527-2 [5]
Tensile Strain (Break)	4.0	20	%	ISO 527-2 [6]
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Charpy notched impact strength				ISO 179/1eA [7]
-30°C	4.00	--	kJ/m^2	
23°C	6.00	12.0	kJ/m^2	
Charpy impact strength				ISO 179/1eU [8]
-30°C	45.0	--	kJ/m^2	
23°C	55.0	60.0	kJ/m^2	
Thermal	**Dry**	**Conditioned**	**Unit**	**Test Method**
Deflection Temperature Under Load				ISO 75-2 [9]
0.45 MPa	215	--	°C	
1.8 MPa	200	--	°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)	3.90	6.20		IEC 60250
Dissipation Factor (1 MHz)	0.020	0.20		IEC 60250 [11]
Comparative tracking index	400	--		IEC 60112 [12]
Injection	**Dry**	**Unit**		
Processing (Melt) Temp	260 to 290		°C	
Mold Temperature	80.0 to 120		°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

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