Miramid® DK2520CW

Polyamide 6

BASF Leuna GmbH

Message:

Miramid® DK2520CW is a Polyamide 6 (Nylon 6) material filled with 20% glass fiber and 25% mineral. It is available in Europe for injection molding.
Important attributes of Miramid® DK2520CW are:
Flame Rated
Chemical Resistant
Crystalline
Good Aesthetics
Good Dimensional Stability
Typical applications include:
Appliances
Engineering/Industrial Parts

General Information	
Filler / Reinforcement	Glass Fiber,20% Filler by Weight Mineral,25% 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	Appliances Engineering Parts
Forms	Granules
Processing Method	Injection Molding

Physical	Dry	Conditioned	Unit	Test Method
Density	1520	--	kg/m³	ISO 1183 [1]
Water Absorption				ISO 62 [2]
Saturation	4.5	--	%	

Equilibrium	1.4	--	%	
Viscosity number	145	--	cm^3/g	ISO 307, 1157, 1628 [3]
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness	250	--	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile modulus	9900	6100	MPa	ISO 527-2 [4]
Tensile Stress (Break)	140	90.0	MPa	ISO 527-2 [5]
Tensile Strain (Break)	2.0	5.0	%	ISO 527-2 [6]
Flexural Stress [7]	210	140	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy notched impact strength				ISO 179/1eA [8]
-30°C	3.00	--	kJ/m^2	
23°C	4.00	5.00	kJ/m^2	
Charpy impact strength				ISO 179/1eU [9]
-30°C	35.0	--	kJ/m^2	
23°C	45.0	50.0	kJ/m^2	
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				ISO 75-2 [10]
0.45 MPa	215	--	°C	
1.8 MPa	205	--	°C	
Continuous Use Temperature				ISO 2578
-- [11]	125	--	°C	
-- [12]	140	--	°C	
-- [13]	180	--	°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 [14]
Dielectric Constant (1 MHz)	3.90	6.20		IEC 60250
Dissipation Factor (1 MHz)	0.020	0.20		IEC 60250 [15]
Comparative tracking index	400	--		IEC 60112 [16]
Flammability	Dry	Conditioned	Unit	Test Method
Burning Rate (1.00 mm)	< 100	--	mm/min	FMVSS 302
Flame Rating (1.50 mm)	HB	--		UL 94
Burning Behav. at thickness h (1.50 mm)	HB	--		ISO 1210 [17]
Glow Wire Flammability Index (1.00 mm)	650	--	°C	IEC 60695-2-12
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.	Typical values for uncoloured product at 23°C and 50% relative humidity
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.	Temperature index at loss of 50% tensile strength, 20000h
12.	Temperature index at loss of 50% tensile strength, 5000h
13.	Short time
14.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.
15.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.
16.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.
17.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.

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