Miramid® SK2515CW black

Polyamide 66

BASF Leuna GmbH

Message:

Miramid® SK2515CW black is a Polyamide 66 (Nylon 66) material filled with 15% glass fiber and 25% mineral. It is available in Europe for injection molding.
Important attributes of Miramid® SK2515CW black are:
Flame Rated
Chemical Resistant
Crystalline
Good Stiffness
Typical applications include:
Automotive
Engineering/Industrial Parts
Housings

General Information	
Filler / Reinforcement	Glass Fiber,15% Filler by Weight Mineral,25% Filler by Weight
Features	Crystalline Fuel Resistant Good Flow Good Stiffness Grease Resistant Oil Resistant Solvent Resistant
Uses	Automotive Exterior Trim Automotive Under the Hood Electric Motor Housings Engineering Parts Wheels
Appearance	Black
Forms	Granules
Processing Method	Injection Molding

Physical	Dry	Conditioned	Unit	Test Method
Density	1460	--	kg/m³	ISO 1183 [1]
Water Absorption				ISO 62 [2]
Saturation	5.0	--	%	
Equilibrium	1.5	--	%	
Viscosity number	140	--	cm³/g	ISO 307, 1157, 1628 [3]

Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness	260	--	MPa	ISO 2039-1
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile modulus	8400	5000	MPa	ISO 527-2 [4]
Tensile Stress (Break)	140	80.0	MPa	ISO 527-2 [5]
Tensile Strain (Break)	2.5	6.0	%	ISO 527-2 [6]
Flexural Stress [7]	200	140	MPa	ISO 178
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Charpy notched impact strength				ISO 179/1eA [8]
-30°C	3.00	--	kJ/m²	
23°C	3.00	5.00	kJ/m²	
Charpy impact strength				ISO 179/1eU [9]
-30°C	40.0	--	kJ/m²	
23°C	40.0	45.0	kJ/m²	
Thermal	**Dry**	**Conditioned**	**Unit**	**Test Method**
Deflection Temperature Under Load				ISO 75-2 [10]
0.45 MPa	250	--	°C	
1.8 MPa	240	--	°C	
Melting Temperature (DSC)	260	--	°C	ISO 3146
Electrical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Volume resistivity	1.0E+13	1.0E+10	ohms·m	IEC 60093 [11]
Dissipation Factor (1 MHz)	0.020	0.15		IEC 60250 [12]
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 [13]
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.	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.
13.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.

Recommended distributors for this material

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