Miramid® S3CW

Polyamide 66

BASF Leuna GmbH

Message:

Miramid® S3CW is a Polyamide 66 (Nylon 66) material. It is available in Europe for injection molding.
Important attributes of Miramid® S3CW are:
Flame Rated
Chemical Resistant
Good Mold Release
Heat Resistant
Typical application of Miramid® S3CW: Engineering/Industrial Parts

General Information				
Features	Fuel Resistant Good Flow Good Mold Release Grease Resistant High Heat Resistance Oil Resistant Solvent Resistant			
Uses	Engineering Parts			
Forms	Granules			
Processing Method	Injection Molding			
Physical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Density	1130	--	kg/m³	ISO 1183 [1]
Water Absorption				ISO 62 [2]
Saturation	8.0	--	%	
Equilibrium	2.5	--	%	
Viscosity number	145	--	cm³/g	ISO 307, 1157, 1628 [3]
Hardness	**Dry**	**Conditioned**	**Unit**	**Test Method**
Ball Indentation Hardness	160	--	MPa	ISO 2039-1
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile modulus	3000	1800	MPa	ISO 527-2 [4]
Tensile Stress (Yield)	80.0	60.0	MPa	ISO 527-2 [5]
Tensile Strain (Yield)	5.0	20	%	ISO 527-2 [6]
Flexural Stress [7] (3.5% Strain)	90.0	50.0	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	4.00	20.0	kJ/m²	

Charpy impact strength				ISO 179/1eU [9]
-30°C	No Break	--		
23°C	No Break	No Break		
Thermal	**Dry**	**Conditioned**	**Unit**	**Test Method**
Deflection Temperature Under Load				ISO 75-2 [10]
0.45 MPa	200	--	°C	
1.8 MPa	70.0	--	°C	
Continuous Use Temperature				ISO 2578
-- [11]	110	--	°C	
-- [12]	120	--	°C	
-- [13]	200	--	°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 [14]
Dielectric Constant (1 MHz)	3.40	5.00		IEC 60250
Dissipation Factor (1 MHz)	0.025	0.20		IEC 60250 [15]
Comparative tracking index	500	--		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)	850	--	°C	IEC 60695-2-12
Injection	**Dry**	**Unit**		
Processing (Melt) Temp	280 to 300		°C	
Mold Temperature	70.0 to 80.0		°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.

Recommended distributors for this material

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