Miramid® SE25CW

Polyamide 66

BASF Leuna GmbH

Message:

Miramid® SE25CW is a Polyamide 66 (Nylon 66) material filled with 25% glass fiber. It is available in Europe for injection molding.
Important attributes of Miramid® SE25CW are:
Chemical Resistant
Crystalline
Fast Molding Cycle
Good Dimensional Stability
Good Stiffness
Typical application of Miramid® SE25CW: Automotive

General Information	
Filler / Reinforcement	Glass Fiber,25% Filler by Weight
Additive	Heat Stabilizer Mold Release
Features	Crystalline Fast Molding Cycle Fuel Resistant Good Dimensional Stability Good Flow Good Stiffness Grease Resistant High Heat Resistance High Rigidity Oil Resistant Solvent Resistant
Uses	Automotive Applications Automotive Under the Hood
Forms	Granules
Processing Method	Injection Molding

Physical	Dry	Conditioned	Unit	Test Method
Density	1320	--	kg/m³	ISO 1183 [1]
Water Absorption				ISO 62 [2]
Saturation	5.8	--	%	
Equilibrium	1.7	--	%	
Viscosity number	145	--	cm³/g	ISO 307, 1157, 1628 [3]

Mechanical	Dry	Conditioned	Unit	Test Method

Tensile modulus	8000	6000	MPa	ISO 527-2 [4]
Tensile Stress (Break)	170	120	MPa	ISO 527-2 [5]
Tensile Strain (Break)	3.0	4.0	%	ISO 527-2 [6]
Flexural Stress [7]	250	180	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy notched impact strength				ISO 179/1eA [8]
-30°C	6.00	--	kJ/m²	
23°C	8.50	10.0	kJ/m²	
Charpy impact strength				ISO 179/1eU [9]
-30°C	45.0	--	kJ/m²	
23°C	60.0	75.0	kJ/m²	
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				ISO 75-2 [10]
0.45 MPa	250	--	°C	
1.8 MPa	250	--	°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]
Dielectric Constant (1 MHz)	3.50	5.50		IEC 60250
Dissipation Factor (1 MHz)	0.015	0.30		IEC 60250 [12]
Comparative tracking index	450	--		IEC 60112 [13]
Injection	Dry	Unit		
Processing (Melt) Temp	280 to 300		°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.	Typical values for uncoloured product at 23°C
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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