

Miramid® SB30C

Polyamide 66

BASF Leuna GmbH

Message:

Miramid® SB30C is a Polyamide 66 (Nylon 66) material filled with 30% glass bead. It is available in Europe for injection molding.

Important attributes of Miramid® SB30C are:

- Chemical Resistant
- Crystalline
- Good Aesthetics
- Good Dimensional Stability
- Good Stiffness
- Typical applications include:
 - Automotive
 - Engineering/Industrial Parts
 - Housings

General Information				
Filler / Reinforcement		Glass Bead,30% Filler by Weight		
Additive		Mold Release		
Features		Crystalline		
		Fuel Resistant		
		Good Dimensional Stability		
		Good Flow		
		Good Stiffness		
		Good Surface Finish		
		Grease Resistant		
		Low Warpage		
		Oil Resistant		
		Solvent Resistant		
Uses		Automotive Under the Hood		
		Engineering Parts		
		Housings		
Forms		Granules		
Processing Method		Injection Molding		
Multi-Point Data		Isothermal Stress vs. Strain (ISO 11403-1)		
		Secant Modulus vs. Strain (ISO 11403-1)		
Physical	Dry	Conditioned	Unit	Test Method
Density	1360	--	kg/m³	ISO 1183 ¹
Water Absorption				ISO 62 ²
Saturation	6.3	--	%	

Equilibrium	2.1	--	%	
Viscosity number	145	--	cm ³ /g	ISO 307, 1157, 1628 ³
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile modulus	4500	2300	MPa	ISO 527-2 ⁴
Tensile Stress (Break)	80.0	50.0	MPa	ISO 527-2 ⁵
Tensile Strain (Break)	3.0	20	%	ISO 527-2 ⁶
Flexural Stress ⁷	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	8.00	kJ/m ²	
Charpy impact strength				ISO 179/1eU ⁹
-30°C	25.0	--	kJ/m ²	
23°C	25.0 kJ/m ²	No Break		
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa)	120	--	°C	ISO 75-2 ¹⁰
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	--		IEC 60250
Comparative tracking index	550	--		IEC 60112 ¹²
Injection	Dry	Unit		
Processing (Melt) Temp	260 to 290		°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 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.

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