

# Miramid® SE30C

Polyamide 66

BASF Leuna GmbH

Message:

Miramid® SE30C is a Polyamide 66 (Nylon 66) material filled with 30% glass fiber. It is available in Europe for injection molding.

Important attributes of Miramid® SE30C are:

- Chemical Resistant
- Crystalline
- Fast Molding Cycle
- Good Dimensional Stability
- Good Stiffness
- Typical applications include:
  - Automotive
  - Electrical/Electronic Applications

General Information				
Filler / Reinforcement		Glass Fiber,30% Filler by Weight		
Additive		Mold Release		
Features		Crystalline		
		Fast Molding Cycle		
		Fuel Resistant		
		Good Dimensional Stability		
		Good Flow		
		Good Stiffness		
		Grease Resistant		
		High Rigidity		
		Oil Resistant		
Uses		Automotive Applications		
		Electrical Parts		
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 <sup>1</sup>
Water Absorption				ISO 62 <sup>2</sup>
Saturation	5.3	--	%	
Equilibrium	1.6	--	%	
Viscosity number	145	--	cm³/g	ISO 307, 1157, 1628 <sup>3</sup>

Mechanical	Dry	Conditioned	Unit	Test Method
Tensile modulus	10000	7000	MPa	ISO 527-2 <sup>4</sup>
Tensile Stress (Break)	185	140	MPa	ISO 527-2 <sup>5</sup>
Tensile Strain (Break)	3.0	5.0	%	ISO 527-2 <sup>6</sup>
Flexural Stress <sup>7</sup>	270	200	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy notched impact strength				ISO 179/1eA <sup>8</sup>
-30°C	9.00	--	kJ/m <sup>2</sup>	
23°C	10.0	12.0	kJ/m <sup>2</sup>	
Charpy impact strength				ISO 179/1eU <sup>9</sup>
-30°C	45.0	--	kJ/m <sup>2</sup>	
23°C	80.0	90.0	kJ/m <sup>2</sup>	
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				ISO 75-2 <sup>10</sup>
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 <sup>11</sup>
Dielectric Constant (1 MHz)	3.50	5.50		IEC 60250
Dissipation Factor (1 MHz)	0.015	0.30		IEC 60250 <sup>12</sup>
Comparative tracking index	550	--		IEC 60112 <sup>13</sup>
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.

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