

Miramid® VE30C

Polyamide 6

BASF Leuna GmbH

Message:

Miramid® VE30C is a Polyamide 6 (Nylon 6) material filled with 30% glass fiber. It is available in Europe for injection molding.

Important attributes of Miramid® VE30C are:

- Chemical Resistant
- Crystalline
- Fast Molding Cycle
- Good Stiffness
- Mold Release Agent
- Typical applications include:
 - Automotive
 - Engineering/Industrial Parts
 - Construction Applications
 - Electrical/Electronic Applications
 - Housings

General Information	
Filler / Reinforcement	Glass Fiber,30% Filler by Weight
Additive	Mold Release
Features	Crystalline
	Fast Molding Cycle
	Fuel Resistant
	Good Flow
	Good Stability
	Good Stiffness
	Grease Resistant
	High Rigidity
	Oil Resistant
Uses	Solvent Resistant
	Automotive Applications
	Building Materials
	Electrical/Electronic Applications
	Engineering Parts
	Housings
	Machine/Mechanical Parts
	Power/Other Tools
Forms	Sporting Goods
	Granules
Processing Method	Injection Molding
Multi-Point Data	Isothermal Stress vs. Strain (ISO 11403-1)

Secant Modulus vs. Strain (ISO 11403-1)

Shear Modulus vs. Temperature (ISO 11403-1)

Physical	Dry	Conditioned	Unit	Test Method
Density	1360	--	kg/m ³	ISO 1183 ¹
Melt Volume-Flow Rate (MVR) (275°C/5.0 kg)	40.0	--	cm ³ /10min	ISO 1133
Water Absorption				ISO 62 ²
Saturation	6.3	--	%	
Equilibrium	1.7	--	%	
Viscosity number	145	--	cm ³ /g	ISO 307, 1157, 1628 ³
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile modulus	9000	6000	MPa	ISO 527-2 ⁴
Tensile Stress (Break)	175	110	MPa	ISO 527-2 ⁵
Tensile Strain (Break)	3.0	6.0	%	ISO 527-2 ⁶
Tensile Creep Modulus (1000 hr)	3200	--	MPa	ISO 899-1
Flexural Stress ⁷	250	150	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy notched impact strength				ISO 179/1eA ⁸
-30°C	11.0	--	kJ/m ²	
23°C	12.0	21.0	kJ/m ²	
Charpy impact strength				ISO 179/1eU ⁹
-30°C	55.0	--	kJ/m ²	
23°C	85.0	100	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				ISO 75-2 ¹⁰
0.45 MPa	215	--	°C	
1.8 MPa	205	--	°C	
Melting Temperature (DSC)	220	--	°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	6.00		IEC 60250
Dissipation Factor (1 MHz)	0.020	0.20		IEC 60250 ¹²
Comparative tracking index	550	--		IEC 60112 ¹³
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
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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