

Miramid® VET30C

Polyamide 6

BASF Leuna GmbH

Message:

Miramid® VET30C is a Polyamide 6 (Nylon 6) material filled with 30% glass fiber. It is available in Europe for injection molding.

Important attributes of Miramid® VET30C are:

Chemical Resistant

Crystalline

Good Stiffness

Impact Modified

Impact Resistant

Typical applications include:

Automotive

Engineering/Industrial Parts

Sporting Goods

General Information				
Filler / Reinforcement		Glass Fiber,30% Filler by Weight		
Additive		Impact Modifier		
Features		Crystalline		
		Fuel Resistant		
		Good Flow		
		Good Impact Resistance		
		Good Stiffness		
		Grease Resistant		
		Impact Modified		
		Oil Resistant		
Uses		Solvent Resistant		
Uses		Engineering Parts		
		Sporting Goods		
Forms		Granules		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1340	--	kg/m³	ISO 1183 ¹
Water Absorption				ISO 62 ²
Saturation	6.0	--	%	
Equilibrium	2.0	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile modulus	9000	5000	MPa	ISO 527-2 ³
Tensile Stress (Break)	160	110	MPa	ISO 527-2 ⁴
Tensile Strain (Break)	4.0	10	%	ISO 527-2 ⁵

Flexural Modulus	7900	4000	MPa	ISO 178
Flexural Stress ⁶	250	130	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy notched impact strength				ISO 179/1eA ⁷
-30°C	12.0	--	kJ/m ²	
23°C	20.0	30.0	kJ/m ²	
Charpy impact strength				ISO 179/1eU ⁸
-30°C	100	--	kJ/m ²	
23°C	100	105	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
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 ⁹
Dielectric Constant (1 MHz)	3.60	6.00		IEC 60250
Dissipation Factor (1 MHz)	0.020	0.20		IEC 60250 ¹⁰
Comparative tracking index	550	--		IEC 60112 ¹¹
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. Typical values for uncoloured product at 23°C and 50% relative humidity

7. Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.

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.

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