

Miramid® VE35C

Polyamide 6

BASF Leuna GmbH

Message:

Miramid® VE35C is a Polyamide 6 (Nylon 6) material filled with 35% glass fiber. It is available in Europe for injection molding.

Important attributes of Miramid® VE35C are:

- Flame Rated
- Chemical Resistant
- Crystalline
- Fast Molding Cycle
- Good Stiffness
- Typical applications include:
 - Engineering/Industrial Parts
 - Automotive
 - Construction Applications
 - Electrical/Electronic Applications
 - Sporting Goods

General Information	
Filler / Reinforcement	Glass Fiber,35% 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
	Solvent Resistant
Uses	Automotive Applications
	Building Materials
	Electrical/Electronic Applications
	Engineering Parts
	Machine/Mechanical Parts
	Sporting Goods
Forms	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	1410	--	kg/m ³	ISO 1183 ¹
Water Absorption				ISO 62 ²
Saturation	5.5	--	%	
Equilibrium	1.6	--	%	
Viscosity number	145	--	cm ³ /g	ISO 307, 1157, 1628 ³
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness	240	--	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile modulus	10000	7000	MPa	ISO 527-2 ⁴
Tensile Stress (Break)	180	115	MPa	ISO 527-2 ⁵
Tensile Strain (Break)	3.0	6.0	%	ISO 527-2 ⁶
Flexural Stress ⁷	280	160	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy notched impact strength				ISO 179/1eA ⁸
-30°C	12.0	--	kJ/m ²	
23°C	14.0	23.0	kJ/m ²	
Charpy impact strength				ISO 179/1eU ⁹
-30°C	60.0	--	kJ/m ²	
23°C	90.0	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	
Continuous Use Temperature				ISO 2578
-- ¹¹	115	--	°C	
-- ¹²	130	--	°C	
-- ¹³	180	--	°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 ¹⁴
Dielectric Constant (1 MHz)	3.60	6.00		IEC 60250
Dissipation Factor (1 MHz)	0.020	0.20		IEC 60250 ¹⁵
Comparative tracking index	550	--		IEC 60112 ¹⁶
Flammability	Dry	Conditioned	Unit	Test Method
Burning Rate (1.00 mm)	< 100	--	mm/min	FMVSS 302
Flame Rating (1.50 mm)	HB	--		UL 94
Burning Behav. at thickness h (1.50 mm)	HB	--		ISO 1210 ¹⁷

Glow Wire Flammability Index (1.00 mm)	650	--	°C	IEC 60695-2-12
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.			
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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.	Temperature index at loss of 50% tensile strength, 20000h			
12.	Temperature index at loss of 50% tensile strength, 5000h			
13.	Short time			
14.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.			
15.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.			
16.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.			

17.

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

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