

Miramid® VE15CW

Polyamide 6

BASF Leuna GmbH

Message:

Miramid® VE15CW is a Polyamide 6 (Nylon 6) material filled with 15% glass fiber. It is available in Europe for injection molding.

Important attributes of Miramid® VE15CW are:

Chemical Resistant

Crystalline

Fast Molding Cycle

Good Stiffness

Heat Resistant

Typical applications include:

Automotive

Engineering/Industrial Parts

Construction Applications

Electrical/Electronic Applications

Sporting Goods

General Information	
Filler / Reinforcement	Glass Fiber,15% Filler by Weight
Additive	Heat Stabilizer
	Mold Release
Features	Crystalline
	Fast Molding Cycle
	Fuel Resistant
	Good Flow
	Good Stability
	Good Stiffness
	Grease Resistant
	High Heat Resistance
	High Rigidity
	Oil Resistant
	Solvent Resistant
Uses	Automotive Applications
	Automotive Exterior Trim
	Building Materials
	Electrical/Electronic Applications
	Engineering Parts
	Machine/Mechanical Parts
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	1230	--	kg/m ³	ISO 1183 ¹
Water Absorption				ISO 62 ²
Saturation	8.5	--	%	
Equilibrium	2.0	--	%	
Viscosity number	145	--	cm ³ /g	ISO 307, 1157, 1628 ³
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile modulus	5500	3200	MPa	ISO 527-2 ⁴
Tensile Stress (Break)	125	75.0	MPa	ISO 527-2 ⁵
Tensile Strain (Break)	3.0	11	%	ISO 527-2 ⁶
Flexural Modulus	190	100	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy notched impact strength				ISO 179/1eA ⁷
-30°C	6.00	--	kJ/m ²	
23°C	7.00	11.0	kJ/m ²	
Charpy impact strength				ISO 179/1eU ⁸
-30°C	35.0	--	kJ/m ²	
23°C	45.0	100	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				ISO 75-2 ⁹
0.45 MPa	210	--	°C	
1.8 MPa	190	--	°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 ¹⁰
Dielectric Constant (1 MHz)	3.50	6.00		IEC 60250
Dissipation Factor (1 MHz)	0.020	0.25		IEC 60250 ¹¹
Comparative tracking index	500	--		IEC 60112 ¹²
Injection	Dry	Unit		
Processing (Melt) Temp	260 to 280		°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.	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.
12.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

