Miramid® VEP15C

Polyamide 6

BASF Leuna GmbH

Message:

Miramid® VEP15C is a Polyamide 6 (Nylon 6) material filled with 15% glass fiber. It is available in Europe for injection molding.
Important attributes of Miramid® VEP15C are:
Flame Rated
Chemical Resistant
Crystalline
Good Stiffness
Impact Modified
Typical applications include:
Automotive
Engineering/Industrial Parts

General Information	
Filler / Reinforcement	Glass Fiber,15% Filler by Weight
Additive	Impact Modifier Mold Release
Features	Crystalline Fuel Resistant Good Flow Good Impact Resistance Good Stiffness Grease Resistant High Rigidity Oil Resistant Solvent Resistant
Uses	Engineering Parts
Forms	Granules
Processing Method	Injection Molding

Physical	Dry	Conditioned	Unit	Test Method
Density	1200	--	kg/m³	ISO 1183 [1]
Water Absorption				ISO 62 [2]
Saturation	8.0	--	%	
Equilibrium	2.4	--	%	

Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness	140	--	MPa	ISO 2039-1

Mechanical	Dry	Conditioned	Unit	Test Method
Tensile modulus	4800	3000	MPa	ISO 527-2 [3]
Tensile Stress (Break)	100	65.0	MPa	ISO 527-2 [4]

Tensile Strain (Break)	5.0	13	%	ISO 527-2 [5]
Flexural Stress [6]	150	80.0	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy notched impact strength				ISO 179/1eA [7]
-30°C	10.0	--	kJ/m²	
23°C	14.0	24.0	kJ/m²	
Charpy impact strength				ISO 179/1eU [8]
-30°C	60.0	--	kJ/m²	
23°C	70.0	80.0	kJ/m²	
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa)	200	--	°C	ISO 75-2 [9]
Continuous Use Temperature [10]	180	--	°C	ISO 2578
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]
Comparative tracking index	550	--		IEC 60112 [12]
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 [13]
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 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.	Short time
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.

Recommended distributors for this material

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