

Miramid® H3CW

Polyamide 6

BASF Leuna GmbH

Message:

Miramid® H3CW is a Polyamide 6 (Nylon 6) material. It is available in Europe for injection molding.

Important attributes of Miramid® H3CW are:

Chemical Resistant

Good Mold Release

Heat Resistant

Heat Stabilizer

Mold Release Agent

Typical applications include:

Automotive

Engineering/Industrial Parts

General Information				
Additive		Heat Stabilizer		
		Mold Release		
Features		Fuel Resistant		
		Good Flow		
		Good Mold Release		
		Grease Resistant		
		High Heat Resistance		
		Oil Resistant		
		Solvent Resistant		
Uses		Engineering Parts		
Forms		Granules		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1130	--	kg/m³	ISO 1183 ¹
Water Absorption				ISO 62 ²
Saturation	10	--	%	
Equilibrium	2.7	--	%	
Viscosity number	145	--	cm³/g	ISO 307, 1157, 1628 ³
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile modulus	2800	1000	MPa	ISO 527-2 ⁴
Tensile Stress (Yield)	80.0	45.0	MPa	ISO 527-2 ⁵
Tensile Strain (Yield)	4.0	20	%	ISO 527-2 ⁶
Nominal Tensile Strain at Break	> 50	> 50	%	ISO 527-2/50
Impact	Dry	Conditioned	Unit	Test Method

Charpy notched impact strength				ISO 179/1eA ⁷
-30°C	5.00	--	kJ/m ²	
23°C	5.50	25.0	kJ/m ²	
Charpy impact strength				ISO 179/1eU ⁸
-30°C	No Break	--		
23°C	No Break	No Break		
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				ISO 75-2 ⁹
0.45 MPa	190	--	°C	
1.8 MPa	65.0	--	°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)	3.40	6.00		IEC 60250
Dissipation Factor (1 MHz)	0.015	0.25		IEC 60250 ¹¹
Comparative tracking index	600	--		IEC 60112 ¹²
Injection	Dry	Unit		
Processing (Melt) Temp	240 to 270		°C	
Mold Temperature	70.0 to 80.0		°C	
NOTE				
1.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.			
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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.

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