

Miramid® S3CHW

Polyamide 66

BASF Leuna GmbH

Message:

Miramid® S3CHW is a Polyamide 66 (Nylon 66) material. It is available in Europe for injection molding.

Important attributes of Miramid® S3CHW are:

Heat Stabilizer

Mold Release Agent

General Information				
Additive		Heat Stabilizer		
		Mold Release		
Features		Heat Stabilized		
Forms		Pellets		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1130	--	kg/m ³	ISO 1183 ¹
Water Absorption				ISO 62 ²
Saturation	7.5	--	%	
Equilibrium	2.5	--	%	
Viscosity number	145	--	cm ³ /g	ISO 307, 1157, 1628 ³
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile modulus	3000	1800	MPa	ISO 527-2 ⁴
Tensile Stress (Yield)	80.0	60.0	MPa	ISO 527-2 ⁵
Tensile Strain (Yield)	5.0	20	%	ISO 527-2 ⁶
Nominal strain at break	10	> 50	%	ISO 527-2 ⁷
Impact	Dry	Conditioned	Unit	Test Method
Charpy notched impact strength				ISO 179/1eA ⁸
-30°C	3.00	--	kJ/m ²	
23°C	4.00	20.0	kJ/m ²	
Charpy impact strength				ISO 179/1eU ⁹
-30°C	No Break	--		
23°C	No Break	No Break		
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				ISO 75-2 ¹⁰
0.45 MPa	200	--	°C	
1.8 MPa	70.0	--	°C	
Melting Temperature ¹¹	260	--	°C	ISO 11357-3 ¹²
Electrical	Dry	Conditioned	Unit	Test Method

Volume resistivity	1.0E+13	1.0E+10	ohms·m	IEC 60093 ¹³
Relative Permittivity (1 MHz)	3.40	5.00		IEC 60250 ¹⁴
Dissipation Factor (1 MHz)	0.025	0.20		IEC 60250 ¹⁵
Comparative tracking index	--	600		IEC 60112 ¹⁶
Flammability	Dry	Conditioned	Unit	Test Method
Burning Behav. at 1.6mm nom. thickn. (1.60 mm)	HB	--		ISO 1210 ¹⁷
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.			
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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.	10 °C/min			
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.			
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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