

Miramid® S3C

Polyamide 66

BASF Leuna GmbH

Message:

Miramid® S3C is a Polyamide 66 (Nylon 66) material. It is available in Europe for injection molding.

Important attributes of Miramid® S3C are:

Chemical Resistant

Good Mold Release

Mold Release Agent

Typical applications include:

Engineering/Industrial Parts

Automotive

Electrical/Electronic Applications

General Information				
Additive		Mold Release		
Features	Fuel Resistant			
	Good Flow			
	Good Mold Release			
	Grease Resistant			
	Oil Resistant			
	Solvent Resistant			
Uses	Connectors			
	Engineering Parts			
	Plugs			
Forms		Granules		
Processing Method		Injection Molding		
Multi-Point Data		Isothermal Stress vs. Strain (ISO 11403-1)		
		Secant Modulus vs. Strain (ISO 11403-1)		
Physical	Dry	Conditioned	Unit	Test Method
Density	1130	--	kg/m ³	ISO 1183 ¹
Water Absorption				ISO 62 ²
Saturation	8.0	--	%	
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 Tensile Strain at Break	20	> 50	%	ISO 527-2/50
Flexural Modulus	2500	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy notched impact strength				ISO 179/1eA ⁷
-30°C	3.00	--	kJ/m ²	
23°C	5.00	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	200	--	°C	
1.8 MPa	70.0	--	°C	
Melting Temperature (DSC)	260	--	°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	5.00		IEC 60250
Dissipation Factor (1 MHz)	0.025	0.20		IEC 60250 ¹¹
Comparative tracking index	600	--		IEC 60112 ¹²
Injection	Dry	Unit		
Processing (Melt) Temp	280 to 300		°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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7.

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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.

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