

Miramid® S3CF

Polyamide 66

BASF Leuna GmbH

Message:

Miramid® S3CF is a Polyamide 66 (Nylon 66) material. It is available in Europe for injection molding.

Important attributes of Miramid® S3CF are:

- Flame Rated
- Chemical Resistant
- Flame Retardant
- Good Mold Release
- Mold Release Agent

Typical application of Miramid® S3CF: Electrical/Electronic Applications

General Information				
Additive		Flame Retardant		
		Mold Release		
Features		Flame Retardant		
		Fuel Resistant		
		Good Flow		
		Good Mold Release		
		Grease Resistant		
		Oil Resistant		
		Solvent Resistant		
Uses		Electrical Parts		
Forms		Granules		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1170	--	kg/m³	ISO 1183 ¹
Water Absorption (Equilibrium)	2.3	--	%	ISO 62 ²
Viscosity number	140	--	cm³/g	ISO 307, 1157, 1628 ³
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile modulus	3500	1500	MPa	ISO 527-2 ⁴
Tensile Stress (Yield)	80.0	50.0	MPa	ISO 527-2 ⁵
Tensile Strain (Yield)	3.0	20	%	ISO 527-2 ⁶
Nominal Tensile Strain at Break	10	--	%	ISO 527-2/50
Flexural Modulus	3200	1300	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	4.00	7.00	kJ/m ²	
Charpy impact strength				ISO 179/1eU ⁸
-30°C	45.0	--	kJ/m ²	
23°C	50.0 kJ/m ²	No Break		
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa)	70.0	--	°C	ISO 75-2 ⁹
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	--		IEC 60250
Comparative tracking index	600	--		IEC 60112 ¹¹
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (1.50 mm)	V-0	--		UL 94
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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11.

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