

Miramid® SP20S

Polyamide 66

BASF Leuna GmbH

Message:

Miramid® SP20S is a Polyamide 66 (Nylon 66) material. It is available in Europe for injection molding.

Important attributes of Miramid® SP20S are:

- Flame Rated
- Chemical Resistant
- Good Mold Release
- Impact Resistant
- Mold Release Agent
- Typical applications include:
 - Automotive
 - Construction Applications
 - Engineering/Industrial Parts
 - Wire & Cable

General Information	
Additive	Mold Release
Features	Fuel Resistant
	Good Flow
	Good Impact Resistance
	Good Mold Release
	Grease Resistant
	Oil Resistant
	Solvent Resistant
Uses	Automotive Applications
	Building Materials
	Cable Jacketing
	Engineering Parts
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	1080	--	kg/m ³	ISO 1183 ¹
Water Absorption				ISO 62 ²
Saturation	7.0	--	%	
Equilibrium	1.9	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile modulus	1800	1000	MPa	ISO 527-2 ³

Tensile Stress (Yield)	45.0	30.0	MPa	ISO 527-2 ⁴
Tensile Strain (Yield)	20	35	%	ISO 527-2 ⁵
Nominal Tensile Strain at Break	> 50	> 50	%	ISO 527-2/50
Impact	Dry	Conditioned	Unit	Test Method
Charpy notched impact strength				ISO 179/1eA ⁶
-30°C	30.0	--	kJ/m ²	
23°C	85.0 kJ/m ²	No Break		
Charpy impact strength				ISO 179/1eU ⁷
-30°C	No Break	--		
23°C	No Break	No Break		
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				ISO 75-2 ⁸
0.45 MPa	170	--	°C	
1.8 MPa	65.0	--	°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 ⁹
Dielectric Constant (1 MHz)	3.10	5.00		IEC 60250
Dissipation Factor (1 MHz)	0.020	0.10		IEC 60250 ¹⁰
Comparative tracking index	600	--		IEC 60112 ¹¹
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 ¹²
Glow Wire Flammability Index (1.00 mm)	650	--	°C	IEC 60695-2-12
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.

2.

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3.

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4.

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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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