

Miramid® SP5S

Polyamide 66

BASF Leuna GmbH

Message:

Miramid® SP5S is a Polyamide 66 (Nylon 66) material. It is available in Europe for injection molding.

Important attributes of Miramid® SP5S are:

Flame Rated

Chemical Resistant

Good Mold Release

Impact Modified

Impact Resistant

Typical applications include:

Automotive

Construction Applications

Electrical/Electronic Applications

Engineering/Industrial Parts

General Information				
Additive		Impact Modifier		
Features	Fuel Resistant			
	Good Flow			
	Good Impact Resistance			
	Good Mold Release			
	Grease Resistant			
	Impact Modified			
	Oil Resistant			
	Solvent Resistant			
Uses	Automotive Applications			
	Building Materials			
	Electrical Parts			
	Engineering Parts			
Forms		Granules		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1120	--	kg/m ³	ISO 1183 ¹
Water Absorption (Equilibrium)	2.5	--	%	ISO 62 ²
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness	140	--	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile modulus	2900	1200	MPa	ISO 527-2 ³
Tensile Stress (Yield)	75.0	50.0	MPa	ISO 527-2 ⁴

Tensile Strain (Yield)	4.0	20	%	ISO 527-2 ⁵
Flexural Stress ⁶ (3.5% Strain)	80.0	30.0	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy notched impact strength				ISO 179/1eA ⁷
-30°C	10.0	--	kJ/m ²	
23°C	12.0	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	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 ¹⁰
Dielectric Constant (1 MHz)	3.10	5.00		IEC 60250
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. Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.

3. Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.

4. Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.

5. Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.

6.	Typical values for uncoloured product at 23°C and 50% relative humidity
7.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.
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.	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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