

Miramid® SP15S

Polyamide 66

BASF Leuna GmbH

Message:

Miramid® SP15S is a Polyamide 66 (Nylon 66) material. It is available in Europe for injection molding.

Important attributes of Miramid® SP15S are:

- Chemical Resistant
- Good Mold Release
- Impact Resistant
- Mold Release Agent
- Typical applications include:
 - Engineering/Industrial Parts
 - Automotive
 - Construction Applications
 - Electrical/Electronic Applications

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			
	Electrical/Electronic Applications			
	Engineering Parts			
	Plugs			
Forms		Granules		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1100	--	kg/m³	ISO 1183 ¹
Water Absorption				ISO 62 ²
Saturation	7.0	--	%	
Equilibrium	2.0	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile modulus	2000	1200	MPa	ISO 527-2 ³
Tensile Stress (Yield)	55.0	40.0	MPa	ISO 527-2 ⁴
Tensile Strain (Yield)	10	20	%	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	25.0	--	kJ/m ²	
23°C	60.0	80.0	kJ/m ²	
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
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.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.

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