

Miramid® FP25S

Polyamide 6

BASF Leuna GmbH

Message:

Miramid® FP25S is a Polyamide 6 (Nylon 6) material. It is available in Europe for injection molding.

Important attributes of Miramid® FP25S are:

Impact Resistant

Mold Release Agent

General Information				
Additive		Mold Release		
Features		Good Impact Resistance		
Forms		Pellets		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1070	--	kg/m ³	ISO 1183 ¹
Water Absorption				ISO 62 ²
Saturation	6.5	--	%	
Equilibrium	2.0	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile modulus	1600	--	MPa	ISO 527-2 ³
Tensile Stress (Yield)	40.0	--	MPa	ISO 527-2 ⁴
Tensile Strain (Yield)	5.0	--	%	ISO 527-2 ⁵
Nominal strain at break	> 50	--	%	ISO 527-2 ⁶
Impact	Dry	Conditioned	Unit	Test Method
Charpy notched impact strength				ISO 179/1eA ⁷
-30°C	20.0	--	kJ/m ²	
23°C	80.0	--	kJ/m ²	
Charpy impact strength				ISO 179/1eU ⁸
-30°C	No Break	--		
23°C	No Break	--		
Thermal	Dry	Conditioned	Unit	Test Method
Melting Temperature ⁹	220	--	°C	ISO 11357-3 ¹⁰
Electrical	Dry	Conditioned	Unit	Test Method
Volume resistivity	1.0E+13	--	ohms · m	IEC 60093 ¹¹
Relative Permittivity (1 MHz)	3.40	--		IEC 60250 ¹²
Dissipation Factor (1 MHz)	0.015	--		IEC 60250 ¹³
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.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.
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.	10 °C/min
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.
13.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.

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