

Miramid® FP20S

Polyamide 6

BASF Leuna GmbH

Message:

Miramid®FP20S is a polyamide 6 (nylon 6) material. This product is available in Europe, and the processing method is injection molding.

Miramid®The main features of FP20S are:

chemical resistance

Impact resistance

mold release agent

excellent release agent

Miramid®The typical application areas of FP20S are: automotive industry

General Information				
Additive	demoulding			
Features	Solvent resistance			
	Impact resistance, good			
	Good liquidity			
	Low temperature impact resistance			
	Fuel resistance			
	Oil resistance			
	Grease resistance			
	Good demoulding performance			
Uses	Application in Automobile Field			
Forms	Particles			
Processing Method	Injection molding			
Multi-Point Data	Isothermal Stress vs. Strain (ISO 11403-1)			
	Secant Modulus vs. Strain (ISO 11403-1)			
	Shear Modulus vs. Temperature (ISO 11403-1)			
Physical	Dry	Conditioned	Unit	Test Method
Density	1070	--	kg/m ³	ISO 1183 ¹
Water Absorption				ISO 62 ²
Saturation	7.5	--	%	ISO 62
Balance	2.4	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	1700	600	MPa	ISO 527-2 ³
Tensile Stress (Yield)	45.0	30.0	MPa	ISO 527-2 ⁴
Tensile Strain (Yield)	5.0	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	ISO 179/1eA
23°C	80.0 kJ/m ²	No Break		ISO 179/1eA
Charpy impact strength				ISO 179/1eU ⁷
-30°C	No Break	--		ISO 179/1eU
23°C	No Break	No Break		ISO 179/1eU
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (1.8 MPa)	50.0	--	°C	ISO 75-2 ⁸
Melting Temperature (DSC)	220	--	°C	ISO 3146
Electrical	Dry	Conditioned	Unit	Test Method
Volume Resistivity	1.0E+13	--	ohms·m	IEC 60093 ⁹
Dielectric Constant (1 MHz)	3.40	--		IEC 60250
Dissipation Factor (1 MHz)	0.015	--		IEC 60250 ¹⁰
Injection	Dry	Unit		
Processing (Melt) Temp	260 - 280		°C	
Mold Temperature	60.0 - 80.0		°C	
NOTE				

1.	?????,?? ISO 10350 ??? 23°C/50%r.h. ???
2.	?????,?? ISO 10350 ??? 23°C/50%r.h. ???
3.	?????,?? ISO 10350 ??? 23°C/50%r.h. ???
4.	?????,?? ISO 10350 ??? 23°C/50%r.h. ???
5.	?????,?? ISO 10350 ??? 23°C/50%r.h. ???
6.	?????,?? ISO 10350 ??? 23°C/50%r.h. ???
7.	?????,?? ISO 10350 ??? 23°C/50%r.h. ???
8.	?????,?? ISO 10350 ??? 23°C/50%r.h. ???
9.	?????,?? ISO 10350 ??? 23°C/50%r.h. ???
10.	?????,?? ISO 10350 ??? 23°C/50%r.h. ???

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