Miramid® FP10KSC

Polyamide 6

BASF Leuna GmbH

Message:

Miramid® FP10KSC is a Polyamide 6 (Nylon 6) material. It is available in Europe for injection molding.
Important attributes of Miramid® FP10KSC are:
Chemical Resistant
Crystalline
Fast Molding Cycle
Impact Resistant
Mold Release Agent
Typical applications include:
Engineering/Industrial Parts
Automotive
Construction Applications
Electrical/Electronic Applications
Furniture

General Information	
Additive	Mold Release
Features	Crystalline
	Fast Molding Cycle
	Fuel Resistant
	Good Flow
	Good Impact Resistance
	Grease Resistant
	Oil Resistant
	Solvent Resistant
Uses	Automotive Applications
	Building Materials
	Electrical Parts
	Fasteners
	Fittings
	Furniture
	Housings
	Plugs
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	1120	--	kg/m³	ISO 1183 [1]
Water Absorption				ISO 62 [2]
Saturation	8.5	--	%	
Equilibrium	2.8	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile modulus	2700	1000	MPa	ISO 527-2 [3]
Tensile Stress (Yield)	70.0	40.0	MPa	ISO 527-2 [4]
Tensile Strain (Yield)	4.0	20	%	ISO 527-2 [5]
Nominal Tensile Strain at Break	10	> 50	%	ISO 527-2
Impact	Dry	Conditioned	Unit	Test Method
Charpy notched impact strength				ISO 179/1eA [6]
-30°C	6.00	--	kJ/m²	
23°C	8.00	30.0	kJ/m²	
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	180	--	°C	
1.8 MPa	60.0	--	°C	
Melting Temperature (DSC)	220	--	°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)	3.40	6.00		IEC 60250
Dissipation Factor (1 MHz)	0.015	0.25		IEC 60250 [10]
Comparative tracking index	600	--		IEC 60112 [11]
Injection	Dry	Unit		
Processing (Melt) Temp	240 to 260		°C	
Mold Temperature	40.0 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.			
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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.
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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.

Recommended distributors for this material

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