

# Miramid® FP10KT

Polyamide 6

BASF Leuna GmbH

Message:

Miramid® FP10KT is a Polyamide 6 (Nylon 6) material. It is available in Europe for injection molding.

Important attributes of Miramid® FP10KT are:

Chemical Resistant

Crystalline

Fast Molding Cycle

Impact Resistant

Mold Release Agent

Typical applications include:

Automotive

Construction Applications

Electrical/Electronic Applications

Engineering/Industrial Parts

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			
	Engineering Parts			
	Furniture			
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	1090	--	kg/m <sup>3</sup>	ISO 1183 <sup>1</sup>
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile modulus	2200	--	MPa	ISO 527-2 <sup>2</sup>

Tensile Stress (Yield)	60.0	--	MPa	ISO 527-2 <sup>3</sup>
Tensile Strain (Yield)	3.5	--	%	ISO 527-2 <sup>4</sup>
Impact	Dry	Conditioned	Unit	Test Method
Charpy notched impact strength				ISO 179/1eA <sup>5</sup>
-30°C	30.0	--	kJ/m <sup>2</sup>	
23°C	60.0	--	kJ/m <sup>2</sup>	
Charpy impact strength				ISO 179/1eU <sup>6</sup>
-30°C	No Break	--		
23°C	No Break	--		
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				ISO 75-2 <sup>7</sup>
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	--	ohms·m	IEC 60093 <sup>8</sup>
Dielectric Constant (1 MHz)	3.40	--		IEC 60250
Dissipation Factor (1 MHz)	0.015	--		IEC 60250 <sup>9</sup>
Injection	Dry	Unit		
Processing (Melt) Temp	250 to 270		°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.

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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.

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