

Miramid® H3KC(U)

Polyamide 6

BASF Leuna GmbH

Message:

Miramid® H3KC(U) is a Polyamide 6 (Nylon 6) material. It is available in Europe for injection molding.

Important attributes of Miramid® H3KC(U) are:

- Flame Rated
- Chemical Resistant
- Crystalline
- Fast Molding Cycle
- Good Processability
- Typical applications include:
 - Engineering/Industrial Parts
 - Electrical/Electronic Applications
 - Automotive

General Information				
Additive		Mold Release		
Features	Crystalline			
	Fast Molding Cycle			
	Fuel Resistant			
	Good Flow			
	Good Moldability			
	Grease Resistant			
	High Rigidity			
	Oil Resistant			
	Solvent Resistant			
Uses	Electrical Parts			
	Engineering Parts			
	Plugs			
	Switches			
	Thin-walled Parts			
Forms		Granules		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1130	--	kg/m ³	ISO 1183 ¹
Water Absorption				ISO 62 ²
Saturation	9.0	--	%	
Equilibrium	2.5	--	%	
Viscosity number	145	--	cm ³ /g	ISO 307, 1157, 1628 ³
Mechanical	Dry	Conditioned	Unit	Test Method

Tensile modulus	3400	1200	MPa	ISO 527-2 ⁴
Tensile Stress (Yield)	90.0	50.0	MPa	ISO 527-2 ⁵
Tensile Strain (Yield)	4.0	20	%	ISO 527-2 ⁶
Nominal Tensile Strain at Break	10	> 50	%	ISO 527-2/50
Impact	Dry	Conditioned	Unit	Test Method
Charpy notched impact strength				ISO 179/1eA ⁷
-30°C	4.50	--	kJ/m ²	
23°C	5.00	20.0	kJ/m ²	
Charpy impact strength				ISO 179/1eU ⁸
-30°C	No Break	--		
23°C	No Break	No Break		
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				ISO 75-2 ⁹
0.45 MPa	190	--	°C	
1.8 MPa	65.0	--	°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 ¹⁰
Dielectric Constant (1 MHz)	3.40	6.00		IEC 60250
Dissipation Factor (1 MHz)	0.015	0.25		IEC 60250 ¹¹
Comparative tracking index	600	--		IEC 60112 ¹²
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (1.50 mm)	V-2	--		UL 94
Injection	Dry	Unit		
Processing (Melt) Temp	240 to 270		°C	
Mold Temperature	80.0 to 120		°C	
NOTE				

1.

Tested in accordance with
ISO 10350. 23°C/50%r.h.
unless otherwise noted.

2.

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3.

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4.

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6.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.
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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.

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