Miramid® H3CF

Polyamide 6

BASF Leuna GmbH

Message:

Miramid® H3CF is a Polyamide 6 (Nylon 6) material. It is available in Europe for injection molding.
Important attributes of Miramid® H3CF are:
Flame Rated
Chemical Resistant
Flame Retardant
Good Mold Release
Mold Release Agent
Typical applications include:
Electrical/Electronic Applications
Automotive
Engineering/Industrial Parts

General Information	
Additive	Flame Retardant Mold Release
Features	Flame Retardant Fuel Resistant Good Flow Good Mold Release Grease Resistant Oil Resistant Solvent Resistant
Uses	Electrical Parts Electrical/Electronic Applications Engineering Parts
Forms	Granules
Processing Method	Injection Molding

Physical	Dry	Conditioned	Unit	Test Method
Density	1170	--	kg/m³	ISO 1183 [1]
Water Absorption				ISO 62 [2]
Saturation	8.5	--	%	
Equilibrium	2.5	--	%	
Viscosity number	140	--	cm³/g	ISO 307, 1157, 1628 [3]

Mechanical	Dry	Conditioned	Unit	Test Method
Tensile modulus	3400	1100	MPa	ISO 527-2 [4]
Tensile Stress (Yield)	80.0	45.0	MPa	ISO 527-2 [5]

Tensile Strain (Yield)	4.0	15	%	ISO 527-2 [6]
Flexural Modulus	3100	--	MPa	ISO 178
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Charpy notched impact strength				ISO 179/1eA [7]
-30°C	3.00	--	kJ/m²	
23°C	4.00	--	kJ/m²	
Charpy impact strength (23°C)	No Break	No Break		ISO 179/1eU [8]
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-0	--		UL 94
Injection	**Dry**	**Unit**		
Processing (Melt) Temp	240 to 270		°C	
Mold Temperature	70.0 to 80.0		°C	

NOTE	
1.	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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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.
12.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.

Recommended distributors for this material

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