Miramid® S3KC

Polyamide 66

BASF Leuna GmbH

Message:

Miramid® S3KC is a Polyamide 66 (Nylon 66) material. It is available in Europe for injection molding.
Important attributes of Miramid® S3KC are:
Flame Rated
Chemical Resistant
Fast Molding Cycle
Mold Release Agent
Rigid
Typical applications include:
Engineering/Industrial Parts
Electrical/Electronic Applications

General Information	
Additive	Mold Release
Features	Fast Molding Cycle
	Fuel Resistant
	Good Flow
	Grease Resistant
	High Rigidity
	Oil Resistant
	Solvent Resistant
Uses	Connectors
	Engineering Parts
	Plugs
	Thin-walled Parts
Forms	Granules
Processing Method	Injection Molding

Physical	Dry	Conditioned	Unit	Test Method
Density	1130	--	kg/m³	ISO 1183 [1]
Water Absorption				ISO 62 [2]
Saturation	7.5	--	%	
Equilibrium	2.5	--	%	
Viscosity number	145	--	cm³/g	ISO 307, 1157, 1628 [3]

Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness	160	--	MPa	ISO 2039-1

Mechanical	Dry	Conditioned	Unit	Test Method
Tensile modulus	3500	1600	MPa	ISO 527-2 [4]
Tensile Stress (Yield)	90.0	60.0	MPa	ISO 527-2 [5]

Tensile Strain (Yield)	4.0	20	%	ISO 527-2 [6]
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Charpy notched impact strength (23°C)	3.00	15.0	kJ/m²	ISO 179/1eA [7]
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	200	--	°C	
1.8 MPa	70.0	--	°C	
Continuous Use Temperature				ISO 2578
-- [10]	90.0	--	°C	
-- [11]	105	--	°C	
-- [12]	200	--	°C	
Melting Temperature (DSC)	260	--	°C	ISO 3146
Electrical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Volume resistivity	1.0E+13	1.0E+10	ohms·m	IEC 60093 [13]
Dielectric Constant (1 MHz)	3.40	5.00		IEC 60250
Dissipation Factor (1 MHz)	0.025	0.20		IEC 60250 [14]
Comparative tracking index	600	--		IEC 60112 [15]
Flammability	**Dry**	**Conditioned**	**Unit**	**Test Method**
Burning Rate (1.00 mm)	< 100	--	mm/min	FMVSS 302
Flame Rating (1.50 mm)	V-2	--		UL 94
Burning Behav. at thickness h (1.50 mm)	V-2	--		ISO 1210 [16]
Glow Wire Flammability Index (1.00 mm)	960	--	°C	IEC 60695-2-12
Injection	**Dry**	**Unit**		
Processing (Melt) Temp	280 to 300		°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.			
2.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.			
3.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.			
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.
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.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.
10.	Temperature index at loss of 50% tensile strength, 20000h
11.	Temperature index at loss of 50% tensile strength, 5000h
12.	Short time
13.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.
14.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.
15.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.
16.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.

Recommended distributors for this material

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