

Badamid® C70 M40 MoS2

Polyamide 66/6 Copolymer

Bada AG

Message:

PA66/6 M40 MoS2

Mineral filled, lubricated injection moulding grade with high wear resistance

General Information				
Filler / Reinforcement		Mineral,40% Filler by Weight		
Features		Good Wear Resistance		
		Lubricated		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.48	--	g/cm ³	ISO 1183
Water Absorption				ISO 62
Saturation, 23°C	4.5	--	%	
Equilibrium, 23°C, 50% RH	1.4	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	6000	2400	MPa	ISO 527-2/1
Tensile Stress ¹ (Break, 23°C)	90.0	50.0	MPa	ISO 527-2/5
Tensile Strain ² (Break, 23°C)	5.0	15	%	ISO 527-2/5
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength ³				ISO 179/1eA
-30°C	4.0	--	kJ/m ²	
23°C	6.0	12	kJ/m ²	
Charpy Unnotched Impact Strength ⁴				ISO 179/1eU
-30°C	80	--	kJ/m ²	
23°C	95	180	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature ⁵				
0.45 MPa, Unannealed	220	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	100	--	°C	ISO 75-2/A
Melting Temperature (DSC) ⁶	243	--	°C	ISO 3146
Maximum Service Temperature				IEC 216

20000 hrs	100	--	°C	
some hours	200	--	°C	
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity ⁷	1.0E+12	1.0E+10	ohms	IEC 60093
Volume Resistivity ⁸	1.0E+15	1.0E+12	ohms·cm	IEC 60093
Electric Strength ⁹	90	60	kV/mm	IEC 60243-1
Relative Permittivity ¹⁰ (1 MHz)	4.00	4.70		IEC 60250
Dissipation Factor ¹¹ (1 MHz)	0.016	0.16		IEC 60250
Comparative Tracking Index	500	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating				UL 94
0.800 mm ¹²	HB	--		
1.60 mm ¹³	HB	--		
Injection	Dry	Unit		
Drying Temperature	80.0		°C	
Drying Time	2.0 to 4.0		hr	
Processing (Melt) Temp	270 to 290		°C	
Mold Temperature	70.0 to 90.0		°C	
NOTE				

1. Test Specimen according to ISO 3167, Type A

2. Test Specimen according to ISO 3167, Type A

3. 80x10x4 mm

4. 80x10x4 mm

5. 110x10x4 mm

6. 10 K/min, Compound for moulding

7. 80x80x1 mm

8. 80x80x1 mm

9. 80x80x1 mm

10. 80x80x1 mm

11. 80x80x1 mm

12. 125x13x0.8 mm

13. 125x13x1.6 mm

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