Badamid® LA70 K MoS21%

Polyamide 66

Bada AG

Message:

Easy flowing injection moulding grade for short cycle times, lubricated with MoS2, high wear resistance

General Information	
Additive	Molybdenum Disulfide Lubricant (1%)
Features	Fast Molding Cycle Good Flow Good Wear Resistance Lubricated
Processing Method	Injection Molding

Physical	Dry	Conditioned	Unit	Test Method
Density	1.13	--	g/cm³	ISO 1183
Water Absorption				ISO 62
Saturation, 23°C	8.0 to 9.0	--	%	
Equilibrium, 23°C, 50% RH	2.5 to 3.1	--	%	
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Modulus [1] (23°C)	3700	1600	MPa	ISO 527-2/1
Tensile Stress [2]				ISO 527-2/50
Yield, 23°C	--	60.0	MPa	
Break, 23°C	95.0	45.0	MPa	
Tensile Strain [3]				
Yield, 23°C	--	17	%	ISO 527-2/50
Break, 23°C	4.0	80	%	ISO 527-2/5
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Charpy Notched Impact Strength (23°C)	7.0	22	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	130 kJ/m²	No Break		ISO 179/1eU
Thermal	**Dry**	**Conditioned**	**Unit**	**Test Method**
Heat Deflection Temperature (0.45 MPa, Unannealed)	220	--	°C	ISO 75-2/B
Melting Temperature (DSC) [4]	260	--	°C	ISO 3146
CLTE				DIN 53752
Flow	7.0E-5 to 1.0E-4	--	cm/cm/°C	
Transverse	7.0E-5 to 1.0E-4	--	cm/cm/°C	

Maximum Service Temperature				IEC 60216
-- [5]	118	--	°C	
--	> 200	--	°C	
Electrical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Surface Resistivity	1.0E+13	1.0E+10	ohms	IEC 60093
Volume Resistivity	1.0E+13	1.0E+10	ohms·cm	IEC 60093
Relative Permittivity (1 MHz)	3.20	5.00		IEC 60250
Dissipation Factor (1 MHz)	0.025	0.20		IEC 60250
Comparative Tracking Index	600	--	V	IEC 60112
Flammability	**Dry**	**Conditioned**	**Unit**	**Test Method**
Flame Rating				UL 94
0.800 mm	V-2	--		
1.60 mm	V-2	--		
Injection	**Dry**	**Unit**		
Drying Temperature	80.0		°C	
Drying Time	2.0 to 4.0		hr	
Processing (Melt) Temp	280 to 300		°C	
Mold Temperature	40.0 to 80.0		°C	
NOTE				
1.	Test Specimen accordng to ISO 3167, Type A			
2.	Test Specimen accordng to ISO 3167, Type A			
3.	Test Specimen accordng to ISO 3167, Type A			
4.	10 K/min			
5.	20000 hr			

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