

DURACON® MS-02

Acetal (POM) Copolymer

Polyplastics Co., Ltd.

Message:

High Sliding, Molybdenum Disulfide Filled, Wear Resistant

General Information			
Additive	Molybdenum disulfide lubricant		
Features	Low friction coefficient		
	Good wear resistance		
	Lubrication		
UL File Number	E45034		
Forms	Particle		
Processing Method	Injection molding		
Part Marking Code (ISO 11469)	>POM-MD2		
Physical	Nominal Value	Unit	Test Method
Density	1.44	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	9.0	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (190°C/2.16 kg)	8.00	cm ³ /10min	ISO 1133
Water Absorption (23°C, 24 hr)	0.50	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	90		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2700	MPa	ISO 527-2
Tensile Stress	64.0	MPa	ISO 527-2
Nominal Tensile Strain at Break	20	%	ISO 527-2
Flexural Modulus	2500	MPa	ISO 178
Flexural Stress	84.0	MPa	ISO 178
Coefficient of friction-Dynamic			JIS K7218
-- 1	0.280		JIS K7218
-- 2	0.330		JIS K7218
Color Number	CD9000		
Specific Wear			JIS K7218
-- 3		10 ⁻³ mm ³ /N·km	JIS K7218
-- 4	5.00	10 ⁻³ mm ³ /N·km	JIS K7218
-- 5	50.0	10 ⁻³ mm ³ /N·km	JIS K7218
-- 6	8.00	10 ⁻³ mm ³ /N·km	JIS K7218
Impact	Nominal Value	Unit	Test Method

Charpy Notched Impact Strength	4.8	kJ/m ²	ISO 179/1eA
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	81.0	°C	ISO 75-2/A
Linear thermal expansion coefficient			Internal method
Flow: 23 to 55°C	1.2E-4	cm/cm/°C	Internal method
Lateral: 23 to 55°C	1.2E-4	cm/cm/°C	Internal method
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	2.0E+16	ohms	IEC 60093
Volume Resistivity	3.0E+14	ohms·cm	IEC 60093
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	80.0 - 90.0	°C	
Drying Time	3.0 - 4.0	hr	
Processing (Melt) Temp	190 - 210	°C	
Mold Temperature	60.0 - 80.0	°C	
Injection Pressure	49.0 - 98.0	MPa	
Screw Speed	100 - 150	rpm	
Injection instructions			
Injection Speed: 5-50mm/s (0.3-3m/min)Molding Cycle: Injection Holding Pressure: Gate sealing time + alpha Cooling: Plasticizing time or ejection capable time			

NOTE

1. vs M90-44, pressure 0.06MPa, 15cm/s
2. vs C-Steel, pressure 0.98MPa, 30cm/s
3. vs C-Steel, steel side, pressure 0.98MPa, 30cm/s
4. vs M90-44, M90-44 side, pressure 0.06MPa, 15cm/s
5. vs M90-44, material side, pressure 0.06MPa, 15cm/s
6. vs C-Steel, material side, pressure 0.98MPa, 30cm/s

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