

DURACON® VW-09

Acetal (POM) Copolymer

Polyplastics Co., Ltd.

Message:

High Sliding

General Information			
Features	Low friction coefficient		
UL File Number	E45034		
Forms	Particle		
Processing Method	Injection molding		
Part Marking Code (ISO 11469)	>POM		
Physical	Nominal Value	Unit	Test Method
Density	1.39	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	3.0	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (190°C/2.16 kg)	2.50	cm ³ /10min	ISO 1133
Water Absorption (23°C, 24 hr)	0.60	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	75		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2250	MPa	ISO 527-2
Tensile Stress	58.0	MPa	ISO 527-2
Nominal Tensile Strain at Break	45	%	ISO 527-2
Flexural Modulus	2100	MPa	ISO 178
Flexural Stress	72.0	MPa	ISO 178
Coefficient of friction-Dynamic			JIS K7218
-- 1	0.280		JIS K7218
-- 2	0.160		JIS K7218
Color Number	CF2001		
Specific Wear			JIS K7218
-- 3		10 ⁻³ mm ³ /N·km	JIS K7218
-- 4	70.0	10 ⁻³ mm ³ /N·km	JIS K7218
-- 5	5.00	10 ⁻³ mm ³ /N·km	JIS K7218
-- 6	0.120	10 ⁻³ mm ³ /N·km	JIS K7218
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	9.9	kJ/m ²	ISO 179/1eA
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	95.0	°C	ISO 75-2/A

Linear thermal expansion coefficient			Internal method
Flow: 23 to 55°C	1.3E-4	cm/cm/°C	Internal method
Lateral: 23 to 55°C	1.3E-4	cm/cm/°C	Internal method
Flammability	Nominal Value	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, material side, pressure 0.06MPa, 15cm/s
5. vs M90-44, M90-44 side, pressure 0.06MPa, 15cm/s
6. vs C-Steel, material side, pressure 0.98MPa, 30cm/s

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