

DURACON® SW-01LV

Acetal (POM) Copolymer + PE

Polyplastics Co., Ltd.

Message:

Low VOC, High Sliding

General Information			
Features	Low VOC Low friction coefficient		
Processing Method	Injection molding		
Part Marking Code (ISO 11469)	>POM+PE-KD10		
Physical	Nominal Value	Unit	Test Method
Density	1.42	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	7.0	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (190°C/2.16 kg)	6.00	cm ³ /10min	ISO 1133
Water Absorption (23°C, 24 hr)	0.60	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2700	MPa	ISO 527-2
Tensile Stress	50.0	MPa	ISO 527-2
Nominal Tensile Strain at Break	20	%	ISO 527-2
Flexural Modulus	2500	MPa	ISO 178
Flexural Stress	75.0	MPa	ISO 178
Coefficient of Friction ¹ (Dynamic)	0.22		JIS K7218
Wear Factor			JIS K7218
0.060 MPa, 0.15 m/sec ²	400	10 ⁻⁸ mm ³ /N·m	JIS K7218
0.060 MPa, 0.15 m/sec ³	500	10 ⁻⁸ mm ³ /N·m	JIS K7218
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	5.4	kJ/m ²	ISO 179/1eA
Thermal	Nominal Value	Unit	Test Method
Linear thermal expansion coefficient			Internal method
Flow: 23 to 55°C	1.1E-4	cm/cm/°C	Internal method
Lateral: 23 to 55°C	1.1E-4	cm/cm/°C	Internal method
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94
Additional Information	Nominal Value	Unit	Test Method
Color Number	CF2001		
Injection	Nominal Value	Unit	Test Method
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: 5-50 mm/s Injection Holding pressure: Gate sealing time + alpha Cooling: Plasticizing time or ejection capable time

NOTE

1. vs. M90-44, 0.06 MPa, 15 cm/s
2. vs M90-44, Material Side
3. vs M90-44, M90-44 Side

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

