

DURACON® LW-02

Acetal (POM) Copolymer

Polyplastics Co., Ltd.

Message:

DURACON® LW-02 is a polyoxymethylene (POM) copolymer product. It can be processed by injection molding and is available in North America, Europe or the Asia-Pacific region. The main characteristics are: flame retardant/rated flame.

General Information			
UL YellowCard	E45034-102150608		
Features	Low friction coefficient		
Uses	General		
UL File Number	E45034		
Forms	Particle		
Processing Method	Injection molding		
Part Marking Code (ISO 11469)	>POM		
Physical	Nominal Value	Unit	Test Method
Density	1.40	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	27	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress	53.0	MPa	ISO 527-2
Nominal Tensile Strain at Break	45	%	ISO 527-2
Flexural Modulus	2350	MPa	ISO 178
Flexural Stress	76.0	MPa	ISO 178
Coefficient of Friction			JIS K7218
Dynamic ¹	0.19		JIS K7218
With steel-dynamic ²	0.17		JIS K7218
Wear Factor			JIS K7218
0.98 MPa, 0.30 m/sec ³	< 1.0	10 ⁻⁸ mm ³ /N·m	JIS K7218
0.98 MPa, 0.30 m/sec ⁴	20	10 ⁻⁸ mm ³ /N·m	JIS K7218
0.060 MPa, 0.15 m/sec ⁵	60	10 ⁻⁸ mm ³ /N·m	JIS K7218
0.060 MPa, 0.15 m/sec ⁶	200	10 ⁻⁸ mm ³ /N·m	JIS K7218
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	6.0	kJ/m ²	ISO 179/1eA
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	87.0	°C	ISO 75-2/A
Flammability	Nominal Value		Test Method
Flame Rating	HB		UL 94
Additional Information	Nominal Value		
Color Number	CF2001/CD3501		

Injection Velocity	5 - 50	mm/sec
Injection	Nominal Value	Unit
Drying Temperature	80 - 90	°C
Drying Time	3.0 - 4.0	hr
Processing (Melt) Temp	190 - 210	°C
Mold Temperature	60 - 80	°C
Injection Pressure	50.0 - 100	MPa
Screw Speed	100 - 150	rpm

NOTE

1. vs M90-44, 0.06 MPa, 15 cm/s
2. 0.98 MPa, 30 cm/s
3. vs C-Steel, Steel Side
4. vs C-Steel, Material Side
5. vs M90-44, Material Side
6. vs M90-44, M90-44 Side

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