

DURACON® EB-10

Acetal (POM) Copolymer

Polyplastics Co., Ltd.

Message:

DURACON®EB-10 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.

Features include:

flame retardant/rated flame

Conductivity

Antistatic

carbon black

General Information			
UL YellowCard	E45034-235718		
Additive	Antistatic property		
	Carbon black (10%)		
Features	Conductivity		
	Antistatic property		
UL File Number	E45034		
Forms	Particle		
Processing Method	Injection molding		
Part Marking Code (ISO 11469)	>POM-CD10		
Physical	Nominal Value	Unit	Test Method
Density	1.43	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.5	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (190°C/2.16 kg)	1.20	cm ³ /10min	ISO 1133
Water Absorption (23°C, 24 hr)	0.80	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	95		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3300	MPa	ISO 527-2
Tensile Stress	55.0	MPa	ISO 527-2
Tensile Strain (Break)	3.0	%	ISO 527-2
Flexural Modulus	3000	MPa	ISO 178
Flexural Stress	95.0	MPa	ISO 178
Coefficient of Friction			JIS K7218
Dynamic ¹	0.36		JIS K7218
With steel-dynamic ²	0.52		JIS K7218
Wear Factor			JIS K7218

0.98 MPa, 0.30 m/sec ³	< 1.0	10 ⁻⁸ mm ³ /N·m	JIS K7218
0.060 MPa, 0.15 m/sec ⁴	57	10 ⁻⁸ mm ³ /N·m	JIS K7218
0.98 MPa, 0.30 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	1.8	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	1.1E-4	cm/cm/°C	Internal method
Lateral: 23 to 55°C	1.1E-4	cm/cm/°C	Internal method
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	2.0E+2	ohms	Internal method
Volume Resistivity	50	ohms·cm	Internal method
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94
Additional Information	Nominal Value		
Color Number	CD3501		
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: 5-50 mm/sInjection Holding pressure: Gate sealing time + alphaCooling: Plasticizing time or ejection capable time			
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 M90-44, M90-44 Side		
5.	vs C-Steel, Material Side		
6.	vs M90-44, Material Side		

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