

DURACON® EW-02

Polyplastics - Acetal (POM) Copolymer + PE

General Information

Product Description

Electric Conductive

Anti-static, High Sliding

General

Filler / Reinforcement	• Carbon Powder, 10% Filler by Weight
Features	• Antistatic • Copolymer • Electrically Conductive • Low Friction
UL File Number	• E45034
Forms	• Pellets
Processing Method	• Injection Molding
Part Marking Code (ISO 11469)	• >POM+PE-CD10<

Properties¹

Physical	Nominal Value	Unit	Test Method
Density	1.37	g/cm ³	ISO 1183
Molding Shrinkage ²			ISO 294-4
Across Flow : 0.0787 in	2.1	%	
Flow : 0.0787 in	2.2	%	
Water Absorption (24 hr, 73°F, 0.0394 in)	1.3	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	399000	psi	ISO 527-1
Tensile Stress	5510	psi	ISO 527-2
Tensile Strain (Break)	2.7	%	ISO 527-2
Flexural Modulus	363000	psi	ISO 178
Flexural Stress	9280	psi	ISO 178
Coefficient of Friction ³ (vs. Steel - Dynamic)	0.20		JIS K7218
Wear Factor			JIS K7218
71 psi, 59 ft/min ⁴	< 0.50	10 ⁻¹⁰ in ³ ·min/ft·lb·hr	
71 psi, 59 ft/min ⁵	35	10 ⁻¹⁰ in ³ ·min/ft·lb·hr	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (73°F)	0.67	ft·lb/in ²	ISO 179/1eA
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	80		ISO 2039-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ISO 75-2/A
264 psi, Unannealed	171	°F	
CLTE - Flow (73 to 131°F)	7.2E-5	in/in/°F	Internal Method
CLTE - Transverse (73 to 131°F)	7.2E-5	in/in/°F	Internal Method
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	5.0E+2	ohms	Internal Method

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Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+2	ohms·cm	Internal Method
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94
Additional Information	Nominal Value	Unit	
Color Number	CD3502		

Notes

¹ Typical properties: these are not to be construed as specifications.

² 60×60×2mmt, Cavity Pressure 60 MPa

³ vs C-Steel, pressure 0.49MPa, 30cm/s

⁴ vs C-Steel, steel side

⁵ vs C-Steel, material side