DURACON® WW-09

Polyplastics - Acetal (POM) Copolymer + PE

General Information

Product Description
High Sliding
High Viscosity

General			
Features	• Copolymer	• High Viscosity	• Low Friction
Forms	• Pellets		
Processing Method	• Injection Molding		
Part Marking Code (ISO 11469)	• >POM+PE<		

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density	1.38	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.5	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (190°C/2.16 kg)	2.3	cm³/10min	ISO 1133
Molding Shrinkage [2]			ISO 294-4
Across Flow : 0.0787 in	2.3	%	
Flow : 0.0787 in	2.9	%	
Water Absorption (24 hr, 73°F, 0.0394 in)	0.70	%	ISO 62

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	377000	psi	ISO 527-1
Tensile Stress	8410	psi	ISO 527-2
Nominal Tensile Strain at Break	40	%	ISO 527-2
Flexural Modulus	319000	psi	ISO 178
Flexural Stress	10900	psi	ISO 178
Coefficient of Friction			JIS K7218
Dynamic [3]	0.34		
vs. Steel - Dynamic [4]	0.16		
vs. Steel - Dynamic [5]	0.14		
Wear Factor			JIS K7218
71 psi, 59 ft/min [6]	< 0.50	10^-10 in³·min/ft·lb·hr	
140 psi, 59 ft/min [6]	< 0.50	10^-10 in³·min/ft·lb·hr	
140 psi, 59 ft/min [7]	13	10^-10 in³·min/ft·lb·hr	
71 psi, 59 ft/min [7]	21	10^-10 in³·min/ft·lb·hr	
8.7 psi, 30 ft/min [8]	450	10^-10 in³·min/ft·lb·hr	
8.7 psi, 30 ft/min [9]	3900	10^-10 in³·min/ft·lb·hr	

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (73°F)	4.3	ft·lb/in²	ISO 179/1eA

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Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	75		ISO 2039-2
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ISO 75-2/A
264 psi, Unannealed	181	°F	
CLTE - Flow (73 to 131°F)	6.7E-5	in/in/°F	Internal Method
CLTE - Transverse (73 to 131°F)	6.7E-5	in/in/°F	Internal Method
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	1.0E+15	ohms	IEC 60093
Volume Resistivity	6.0E+14	ohms·cm	IEC 60093
Electric Strength (0.118 in)	480	V/mil	IEC 60243-1
Additional Information	**Nominal Value**	**Unit**	
Color Number	CF2001		

Notes

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

[2] 60x60x2mmt, Cavity Pressure 60 MPa

[3] vs M90-44, 0.06MPa, 15cm/s

[4] 0.49MPa, 30cm/s

[5] 0.98 MPa, 30 cm/s

[6] vs C-Steel, steel side

[7] vs C-Steel, material side

[8] vs M90-44, material side

[9] vs M90-44, M90-44 side