DURACON® FW-01

Polyplastics - *Acetal (POM) Copolymer*

General Information

Product Description			
High Sliding			
General			
Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Copolymer	• Low Friction	
Forms	• Pellets		
Processing Method	• Injection Molding		
Part Marking Code (ISO 11469)	• >POM<		

Properties [1]

Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.40	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	11	g/10 min	ISO 1133
Molding Shrinkage [2]			ISO 294-4
Across Flow : 0.0787 in	2.1	%	
Flow : 0.0787 in	2.4	%	
Water Absorption (24 hr, 73°F, 0.0394 in)	0.60	%	ISO 62
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress	8120	psi	ISO 527-2
Nominal Tensile Strain at Break	60	%	ISO 527-2
Flexural Modulus	326000	psi	ISO 178
Flexural Stress	11300	psi	ISO 178
Coefficient of Friction			
Dynamic [3]	0.15		JIS K7218
vs. Steel - Dynamic [4]	0.25		ASTM D1894
Wear Factor			JIS K7218
140 psi, 59 ft/min [5]	< 0.50	10^-10 in³·min/ft·lb·hr	
140 psi, 59 ft/min [6]	23	10^-10 in³·min/ft·lb·hr	
8.7 psi, 30 ft/min [7]	130	10^-10 in³·min/ft·lb·hr	
8.7 psi, 30 ft/min [8]	160	10^-10 in³·min/ft·lb·hr	
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength (73°F)	3.3	ft·lb/in²	ISO 179/1eA
Additional Information	**Nominal Value**	**Unit**	**Test Method**
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, pressure 0.06MPa, 15cm/s

[4] vs CSteel, pressure 0.98MPa, 30cm/s

[5] vs C-Steel, Steel Side

[6] vs C-Steel, Material Side

[7] vs M90-44, M90-44 Side

[8] vs M90-44, Material Side