

**DURACON® YF-10**

Polyplastics - Acetal (POM) Copolymer

## General Information

**Product Description**

High Sliding

PTFE Filled

**General**

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Additive	• PTFE Lubricant		
Features	• Copolymer	• Low Friction	• Lubricated
UL File Number	• E45034		
Forms	• Pellets		
Processing Method	• Injection Molding		
Part Marking Code (ISO 11469)	• >POM+PTFE<		

 Properties <sup>1</sup>

Physical	Nominal Value	Unit	Test Method
Density	1.46	g/cm <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	7.0	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (190°C/2.16 kg)	6.0	cm <sup>3</sup> /10min	ISO 1133
Molding Shrinkage <sup>2</sup>			ISO 294-4
Across Flow : 0.0787 in	2.0	%	
Flow : 0.0787 in	2.4	%	
Water Absorption (24 hr, 73°F, 0.0394 in)	0.50	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	341000	psi	ISO 527-1
Tensile Stress	7830	psi	ISO 527-2
Nominal Tensile Strain at Break	14	%	ISO 527-2
Flexural Modulus	319000	psi	ISO 178
Flexural Stress	10400	psi	ISO 178
Coefficient of Friction			JIS K7218
Dynamic <sup>3</sup>	0.32		
vs. Steel - Dynamic <sup>4</sup>	0.20		
Wear Factor			JIS K7218
140 psi, 59 ft/min <sup>5</sup>	< 0.50	10 <sup>-10</sup> in <sup>3</sup> ·min/ft·lb·hr	
140 psi, 59 ft/min <sup>6</sup>	30	10 <sup>-10</sup> in <sup>3</sup> ·min/ft·lb·hr	
8.7 psi, 30 ft/min <sup>7</sup>	400	10 <sup>-10</sup> in <sup>3</sup> ·min/ft·lb·hr	
8.7 psi, 30 ft/min <sup>8</sup>	3200	10 <sup>-10</sup> in <sup>3</sup> ·min/ft·lb·hr	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (73°F)	1.6	ft·lb/in <sup>2</sup>	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 (264 psi, Unannealed)	180	°F	ISO 75-2/A
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



<b>Electrical</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Surface Resistivity	6.0E+15	ohms	IEC 60093
Volume Resistivity	9.0E+13	ohms·cm	IEC 60093
<b>Flammability</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Flame Rating	HB		UL 94
<b>Additional Information</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Color Number	CF2001/CD3501		

#### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.

<sup>2</sup> 60x60x2mmt, Cavity Pressure 60 MPa

<sup>3</sup> vs M90-44, 0.06 MPa, 15 cm/s

<sup>4</sup> 0.98 MPa, 30 cm/s

<sup>5</sup> vs C-Steel, Steel Side

<sup>6</sup> vs C-Steel, Material Side

<sup>7</sup> vs M90-44, Material Side

<sup>8</sup> vs M90-44, M90-44 Side

