

# DURACON® GH-10

## Polyplastics - Acetal (POM) Copolymer

### General Information

#### Product Description

Glass Fiber Reinforced

GF10% Reinforced

#### General

Filler / Reinforcement	• Glass Fiber, 10% Filler by Weight
Features	• Copolymer
UL File Number	• E45034
Forms	• Pellets
Processing Method	• Injection Molding
Part Marking Code (ISO 11469)	• >POM-GF10<

### Properties <sup>1</sup>

Physical	Nominal Value	Unit	Test Method
Density	1.47	g/cm <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	4.7	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (190°C/2.16 kg)	3.8	cm <sup>3</sup> /10min	ISO 1133
Molding Shrinkage <sup>2</sup>			ISO 294-4
Across Flow : 0.0787 in	1.1	%	
Flow : 0.0787 in	1.6	%	
Water Absorption (24 hr, 73°F, 0.0394 in)	0.70	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	682000	psi	ISO 527-1
Tensile Stress	13300	psi	ISO 527-2
Tensile Strain (Break)	3.7	%	ISO 527-2
Flexural Modulus	590000	psi	ISO 178
Flexural Stress	19000	psi	ISO 178
Coefficient of Friction			JIS K7218
Dynamic <sup>3</sup>	0.35		
vs. Steel - Dynamic <sup>4</sup>	0.50		
Wear Factor			JIS K7218
71 psi, 59 ft/min <sup>5</sup>	15	10 <sup>-10</sup> in <sup>3</sup> ·min/ft·lb·hr	
8.7 psi, 30 ft/min <sup>6</sup>	99	10 <sup>-10</sup> in <sup>3</sup> ·min/ft·lb·hr	
71 psi, 59 ft/min <sup>7</sup>	1500	10 <sup>-10</sup> in <sup>3</sup> ·min/ft·lb·hr	
8.7 psi, 30 ft/min <sup>8</sup>	4000	10 <sup>-10</sup> in <sup>3</sup> ·min/ft·lb·hr	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (73°F)	2.3	ft·lb/in <sup>2</sup>	ISO 179/1eA

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Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load 264 psi, Unannealed	306	°F	ISO 75-2/A
CLTE - Flow (73 to 131°F)	2.2E-5	in/in/°F	Internal Method
CLTE - Transverse (73 to 131°F)	6.1E-5	in/in/°F	Internal Method
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+16	ohms	IEC 60093
Volume Resistivity	7.0E+13	ohms·cm	IEC 60093
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94
Additional Information	Nominal Value	Unit	
Color Number	CF3500		

#### 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> 0.49 MPa, 30 cm/s

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

<sup>6</sup> vs M90-44, Material Side

<sup>7</sup> vs C-Steel, Material Side

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