

DURACON® GH-10

Acetal (POM) Copolymer

Polyplastics Co., Ltd.

Message:

DURACON®GH-10 is a polyoxymethylene (POM) copolymer product, which contains a 10% glass fiber reinforced material. It can be processed by injection molding and is available in North America, Europe or the Asia-Pacific region. The main characteristics are: flame retardant/rated flame.

General Information			
UL YellowCard	E45034-101018803		
Filler / Reinforcement	Glass fiber reinforced material, 10% filler by weight		
Forms	Particle		
Processing Method	Injection molding		
Part Marking Code (ISO 11469)	>POM-GF10		
Physical	Nominal Value	Unit	Test Method
Density	1.47	g/cm ³	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)	3.80	cm ³ /10min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	4700	MPa	ISO 527-2
Tensile Stress	92.0	MPa	ISO 527-2
Tensile Strain (Break)	3.7	%	ISO 527-2
Flexural Modulus	4070	MPa	ISO 178
Flexural Stress	131	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	4.8	kJ/m ²	ISO 179/1eA
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	152	°C	ISO 75-2/A
Linear thermal expansion coefficient			Internal method
Flow: 23 to 55°C	4.0E-5	cm/cm/°C	Internal method
Lateral: 23 to 55°C	1.1E-4	cm/cm/°C	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		
Color Number	CF3500		
Injection	Nominal Value	Unit	

Drying Temperature	80.0 - 90.0	°C
Drying Time	3.0 - 4.0	hr
Processing (Melt) Temp	190 - 210	°C
Mold Temperature	60.0 - 80.0	°C
Injection Pressure	49.0 - 98.0	MPa
Screw Speed	100 - 150	rpm

Injection instructions

Injection speed: 5-50 mm/s
Injection Holding pressure: Gate sealing time + alpha
Cooling: Plasticizing time or ejection capable time

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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