DURACON® GB-25R

Polyplastics - Acetal (POM) Copolymer

General Information

Product Description

Low Warpage

GB 25% Reinforce, Low Warpage

General

Filler / Reinforcement	• Glass Bead, 25% Filler by Weight	
Features	• Copolymer	• Low Warpage
UL File Number	• E45034	
Forms	• Pellets	
Processing Method	• Injection Molding	
Part Marking Code (ISO 11469)	• >POM-GB25<	

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density	1.59	g/cm³	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)	5.0	cm³/10min	ISO 1133
Molding Shrinkage [2]			ISO 294-4
Across Flow : 0.0787 in	1.6	%	
Flow : 0.0787 in	1.9	%	
Water Absorption (24 hr, 73°F, 0.0394 in)	0.50	%	ISO 62

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	580000	psi	ISO 527-1
Tensile Stress	8560	psi	ISO 527-2
Tensile Strain (Break)	10	%	ISO 527-2
Flexural Modulus	551000	psi	ISO 178
Flexural Stress	15100	psi	ISO 178
Coefficient of Friction			JIS K7218
Dynamic [3]	0.37		
vs. Steel - Dynamic [4]	0.51		
Wear Factor			JIS K7218
8.7 psi, 30 ft/min [5]	20	10^-10 in³·min/ft·lb·hr	
71 psi, 59 ft/min [6]	250	10^-10 in³·min/ft·lb·hr	
71 psi, 59 ft/min [7]	3500	10^-10 in³·min/ft·lb·hr	
8.7 psi, 30 ft/min [8]	4000	10^-10 in³·min/ft·lb·hr	

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (73°F)	1.6	ft·lb/in²	ISO 179/1eA

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Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ISO 75-2/A
264 psi, Unannealed	230	°F	
CLTE - Flow (73 to 131°F)	5.0E-5	in/in/°F	Internal Method
CLTE - Transverse (73 to 131°F)	5.0E-5	in/in/°F	Internal Method
Electrical	**Nominal Value**	**Unit**	**Test Method**
Electric Strength (0.118 in)	530	V/mil	IEC 60243-1
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating	HB		UL 94
Additional Information	**Nominal Value**	**Unit**	
Color Number	CF3500/CD3501		

Notes

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

[2] 60x60x2mmt, Cavity Pressure 60 MPa

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

[4] 0.49 MPa, 30 cm/s

[5] vs M90-44, Material Side

[6] vs C-Steel, Steel Side

[7] vs C-Steel, Material Side

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