

HiFill® POM HO GB20 LE

Acetal (POM) Homopolymer

Techmer Engineered Solutions

Message:

HiFill® POM HO GB20 LE is a polyoxymethylene (POM) homopolymer product that contains glass beads. It can be processed by injection molding and is available in North America.

Features include:

flame retardant/rated flame

Homopolymer

General Information			
Filler / Reinforcement	Glass beads		
Features	Low extract		
	Homopolymer		
Appearance	Available colors		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.55	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	2.2	%	ASTM D955
Water Absorption (24 hr)	0.20	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	100		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	42.7	MPa	ASTM D638
Tensile Elongation (Break)	5.0	%	ASTM D638
Flexural Modulus	4140	MPa	ASTM D790
Flexural Strength	84.1	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	32	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	159	°C	ASTM D648
1.8 MPa, not annealed	121	°C	ASTM D648
CLTE - Flow	6.3E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+16	ohms · cm	ASTM D257
Dielectric Strength ¹	18	kV/mm	ASTM D149
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.57 mm)	HB		UL 94
Injection	Nominal Value	Unit	

Drying Temperature	93.3	°C
Drying Time	2.0 - 3.0	hr
Rear Temperature	193 - 218	°C
Middle Temperature	193 - 218	°C
Front Temperature	193 - 218	°C
Processing (Melt) Temp	193 - 227	°C
Mold Temperature	82.2 - 104	°C
Back Pressure	0.345 - 0.689	MPa
Screw Speed	30 - 60	rpm

NOTE

1. Method A (short time)

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

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

