Ecomass® 1700CO93

Polyamide 12

Ecomass Technologies

Message:

Ecomass®1700CO93 is a polyamide 12 (nylon 12) material containing a copper filler. This product is available in North America and is processed by injection molding. Ecomass®The main features of 1700CO93 are: Good stiffness non-toxic

General Information			
Filler / Reinforcement	Copper filler		
Features	Rigid, good		
	High density		
	Non-toxic		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	5.69	g/cm³	ASTM D792
Molding Shrinkage - Flow	0.50 - 0.60	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	9650	MPa	ASTM D638
Tensile Strength	44.8	MPa	ASTM D638
Tensile Elongation (Break)	< 1.0	%	ASTM D638
Flexural Modulus	8620	MPa	ASTM D790
Flexural Strength	65.5	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	67	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	155	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	0.21	ohms	ASTM D257
Injection	Nominal Value	Unit	
Drying Temperature - Desiccant Dryer	73.9	°C	
Drying Time - Desiccant Dryer	4.0	hr	
Processing (Melt) Temp	204 - 254	°C	
Mold Temperature	57.2 - 79.4	°C	
Injection Rate	Moderate-Fast		

Back Pressure	0.103 - 0.172	MPa
Screw Speed	100 - 250	rpm
Clamp Tonnage	3.4 - 5.5	kN/cm²
Cushion	6.35 - 12.7	mm
Screw L/D Ratio	20.0:1.0	
Screw Compression Ratio	2.5:1.0	
Injection instructions		

Pack (Hold) Pressure: 65 to 75% of Injection PressureFill Time: 1.0 to 2.0 in/secPack (Hold) Time: 10 to 15 secCooling Time: As requiredFeed Throat: CooledNozzle Type: Reverse TaperCheck Type: Free FlowMaximum Drying Temp: 200 °FDryer Dew Point: -20 to -40 °FMinimum Air Flow: 0.8 to 1.0 CFMInjection Pressure: As Required

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

