

ASTARYL™ MG703H

Polyphenylene Ether + PS

Marplex Australia Pty. Ltd.

Message:

ASTARYL™ MG703H is a 30% glass fibre filled moulding grade of modified PPE+PS (Polyphenylene Ether + Polystyrene). ASTARYL™ MG703H offers a balance of product rigidity and strength, creep resistance, electrical insulation, low moisture absorption, high heat resistance, high dimensional stability, mouldability and low product density. Typical applications include electrical components and water pump assemblies.

General Information	
Filler / Reinforcement	Glass fiber reinforced material, 30% filler by weight
Features	Good dimensional stability
	Low density
	Low hygroscopicity
	Rigid, good
	Insulation
	Good formability
	Good creep resistance
	Good strength
	Heat resistance, high
Uses	Pump parts
	Electrical/Electronic Applications

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.28	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (280°C/10.0 kg)	6.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.00 mm)	0.20	%	ASTM D955
Water Absorption (24 hr)	0.060	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	126		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (3.20 mm)	118	MPa	ASTM D638
Tensile Elongation ² (Break, 3.20 mm)	3.0	%	ASTM D638
Flexural Modulus ³ (3.20 mm)	7150	MPa	ASTM D790
Flexural Strength ⁴ (3.20 mm)	170	MPa	ASTM D790
Taber Abrasion Resistance (1000 g, CS-17 Wheel)	34.0	mg	ASTM D1044
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.20 mm)	120	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method

Deflection Temperature Under Load (1.8 MPa, Unannealed, 3.20 mm)	148	°C	ASTM D648
Vicat Softening Temperature	153	°C	ASTM D1525 ⁵
CLTE - Flow	2.8E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+17	ohms·cm	ASTM D257
Dielectric Strength ⁶ (2.00 mm)	44	kV/mm	ASTM D149
Arc Resistance ⁷	70.0	sec	ASTM D495
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.60 mm)	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	100 - 120	°C	
Drying Time	3.0 - 5.0	hr	
Rear Temperature	250 - 270	°C	
Middle Temperature	260 - 280	°C	
Front Temperature	270 - 290	°C	
Processing (Melt) Temp	280 - 300	°C	
Mold Temperature	60.0 - 120	°C	
Injection Pressure	60.0 - 140	MPa	
Injection Rate	Slow-Moderate		
Screw Speed	40 - 60	rpm	
Clamp Tonnage	4.0 - 8.0	kN/cm ²	
Injection instructions			
Back Pressure: Minimum			
NOTE			
1.	5.0 mm/min		
2.	5.0 mm/min		
3.	1.3 mm/min		
4.	1.3 mm/min		
5.	载荷2 (50N)		
6.	Method A (short time)		
7.	Tungsten Electrode		

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