

DESTRON™ DSC1701GH9

Polyphthalamide

DESCO Co., Ltd.

Message:

Descriptions: DESTRON™ DSC1701GH9 is semi-crystalline PPA(Polyphthalamide) Glass fiber 45% reinforced grade. It has great mechanical properties, good dimensional stability and excellent thermal performance.

Applications: DESTRON™ DSC1701GH9 is applicable for automotive industry, electrical items and industrial items such as Coil Bobbin, Water Pump Housing which request high heat stability.

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 45% filler by weight		
Features	Semicrystallization		
	Good dimensional stability		
	Thermal stability, good		
Uses	Pump parts		
	Electrical components		
	Industrial application		
	Application in Automobile Field		
	Shell		
	spool		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.58	g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.20 - 0.60	%	
Water Absorption (23°C, 24 hr)	0.12	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	125		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	265	MPa	ASTM D638
Tensile Elongation (Break)	2.5	%	ASTM D638
Flexural Modulus	14200	MPa	ASTM D790
Flexural Strength	11.9	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	130	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	285	°C	ASTM D648
1.8 MPa, not annealed	300	°C	ASTM D648
Melting Temperature	310	°C	DSC

Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+15	ohms·cm	ASTM D257
Dielectric Strength	23	kV/mm	ASTM D149
Arc Resistance	145	sec	ASTM D495
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	120 - 135	°C	
Drying Time	4.0 - 5.0	hr	
Rear Temperature	310 - 320	°C	
Middle Temperature	315 - 345	°C	
Front Temperature	320 - 345	°C	
Nozzle Temperature	320 - 345	°C	
Processing (Melt) Temp	320 - 345	°C	
Mold Temperature	100 - 140	°C	
Injection instructions			

Speed: 40 to 70%Pressure 1st: 30 to 60%Pressure 2nd: 30 to 60Holding Pressure: 10 to 20%

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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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