ASTALON™ GS2010R

Polycarbonate

Marplex Australia Pty. Ltd.

Message:

ASTALON™ GS2010R is a 10% glass fibre filled Polycarbonate and offers an exceptional combination of product rigidity and strength, heat resistance, dimensional stability, flame retardancy, creep resistance and processability with a mould release agent (R) to assist with moulded part ejection. Typical applications of ASTALON™ GS2010R include metal substitution such as automotive interior structural brackets, camera frames, industrial electrical switch housings, electrical power tool casings and mounting chassis for electronics devices such as computer printers, laptop computers and VTR units.

General Information	
Filler / Reinforcement	Glass Fiber,10% Filler by Weight
Additive	Mold Release
Features	Flame Retardant Good Creep Resistance Good Dimensional Stability Good Processability Good Stiffness Good Strength Medium Heat Resistance
Uses	Automotive Applications Camera Applications Electrical/Electronic Applications Housings Industrial Applications Metal Replacement Power/Other Tools Printer Parts
Processing Method	Injection Molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.27	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	11	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.00 mm)	0.40	%	ASTM D955
Water Absorption (24 hr)	0.14	%	ASTM D570

Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	124		ASTM D785

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength [1] (3.20 mm)	71.0	MPa	ASTM D638
Tensile Elongation [2] (Break, 3.20 mm)	7.0	%	ASTM D638
Flexural Modulus [3] (6.40 mm)	3650	MPa	ASTM D790

Flexural Strength [4] (6.40 mm)	116	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (3.20 mm)	150	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (1.8 MPa, Unannealed, 6.40 mm)	143	°C	ASTM D648
CLTE - Flow	4.4E-5	cm/cm/°C	ASTM D696
Electrical	**Nominal Value**	**Unit**	**Test Method**
Dielectric Strength	18	kV/mm	ASTM D149
Dielectric Constant	2.88		ASTM D150
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating (1.60 mm)	V-2		UL 94
Injection	**Nominal Value**	**Unit**	
Drying Temperature	120 to 125	°C	
Drying Time	4.0 to 6.0	hr	
Rear Temperature	245 to 265	°C	
Middle Temperature	260 to 280	°C	
Front Temperature	275 to 295	°C	
Processing (Melt) Temp	270 to 300	°C	
Mold Temperature	60.0 to 110	°C	
Injection Pressure	60.0 to 140	MPa	
Injection Rate	Moderate		
Back Pressure	0.100 to 0.500	MPa	
Screw Speed	40 to 60	rpm	
Clamp Tonnage	4.0 to 8.0	kN/cm^2	
NOTE			
1.	5.0 mm/min		
2.	5.0 mm/min		
3.	2.8 mm/min		
4.	2.8 mm/min		

Recommended distributors for this material

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WECHAT