ASTALON™ K2000G2

Polycarbonate

Marplex Australia Pty. Ltd.

Message:

ASTALON™ K2000G2 is a 10% Glass Filled flame retardant Polycarbonate that is designed to meet the stringent Underwriter's Laboratory UL94 V-0 test whilst offering improved rigidity, heat resistance, indoor colour stability and balance of impact toughness, product rigidity and mouldability. Typical applications include assemblies for electrical appliance and equipment. Other applications include metal substitution such as 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
Features	Good Color Stability Good Impact Resistance Good Moldability Good Stiffness Medium Flow Medium Heat Resistance
Uses	Appliance Components Computer Components Electrical/Electronic Applications Housings Metal Replacement Power/Other Tools Printer Parts Switches

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.28	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	15	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.00 mm)	0.40	%	ASTM D955
Water Absorption (24 hr)	0.13	%	ASTM D570
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale)	121		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength [1] (3.20 mm)	73.0	MPa	ASTM D638
Tensile Elongation [2] (Break, 3.20 mm)	7.0	%	ASTM D638
Flexural Modulus [3] (6.40 mm)	3350	MPa	ASTM D790
Flexural Strength [4] (6.40 mm)	114	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (3.20 mm)	80	J/m	ASTM D256

Gardner Impact (3.20 mm)	25.0	J	ASTM D3029
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 3.20 mm	144	°C	
1.8 MPa, Unannealed, 3.20 mm	136	°C	
Vicat Softening Temperature	158	°C	ISO 306/A
CLTE - Flow	3.5E-5	cm/cm/°C	ASTM D696
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating (3.00 mm)	V-0		UL 94
Glow Wire Ignition Temperature (1.60 mm)	960	°C	AS/NZS 60695.2.12
Injection	**Nominal Value**	**Unit**	
Drying Temperature	120 to 125	°C	
Drying Time	4.0 to 6.0	hr	
Rear Temperature	245 to 260	°C	
Middle Temperature	255 to 270	°C	
Front Temperature	265 to 280	°C	
Processing (Melt) Temp	265 to 280	°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	30 to 50	rpm	
Clamp Tonnage	4.0 to 8.0	kN/cm^2	

NOTE	
1.	5.0 mm/min
2.	5.0 mm/min
3.	1.3 mm/min
4.	1.3 mm/min

Recommended distributors for this material

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