

# ASTADUR™ B4300G6-UV

Polybutylene Terephthalate

Marplex Australia Pty. Ltd.

## Message:

ASTADUR™ B4300G6 is a 30% glass fibre reinforced, UV stabilized grade of polybutylene terephthalate (PBT) polymer. It has excellent processability, high rigidity and heat resistance and is resistant to chemical attack. It is suitable for applications where rigidity and heat resistance are of high importance.

Note: The letters "UV" or "W" indicate UV stabilisation has been added [ ie: ASTADUR™ B4300G6UV ].

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 30% filler by weight		
Additive	UV stabilizer		
Features	Rigidity, high Workability, good Heat resistance, medium Medium hardness		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.53	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (250°C/2.16 kg)	14	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.00 mm)	0.50	%	ASTM D955
Water Absorption (Saturation)	0.35	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	112		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>1</sup> (3.20 mm)	125	MPa	ASTM D638
Tensile Elongation <sup>2</sup> (Break, 3.20 mm)	2.0	%	ASTM D638
Flexural Modulus <sup>3</sup> (3.20 mm)	6800	MPa	ASTM D790
Flexural Strength <sup>4</sup> (3.20 mm)	170	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.20 mm)	60	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, unannealed, 3.20mm	220	°C	ASTM D648
1.8 MPa, unannealed, 3.20mm	215	°C	ASTM D648
Vicat Softening Temperature	220	°C	ASTM D1525 <sup>5</sup>
CLTE - Flow	2.5E-5	cm/cm/°C	ASTM D696
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.60 mm)	HB		UL 94
Glow Wire Ignition Temperature (1.60 mm)	550	°C	AS/NZS 60695
Injection	Nominal Value	Unit	

Drying Temperature	100 - 120	°C
Drying Time	4.0 - 6.0	hr
Rear Temperature	230 - 240	°C
Processing (Melt) Temp	250 - 270	°C
Mold Temperature	90.0	°C
Injection Pressure	60.0 - 140	MPa
Injection Rate	Fast	
Back Pressure	0.300 - 1.00	MPa
Clamp Tonnage	4.0 - 8.0	kN/cm <sup>2</sup>

#### Injection instructions

Screw Speed: Minimum

#### NOTE

- |    |            |
|----|------------|
| 1. | 5.0 mm/min |
| 2. | 5.0 mm/min |
| 3. | 1.3 mm/min |
| 4. | 1.3 mm/min |
| 5. | 压力1 (10N)  |

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