

ASTADUR™ PBT B4300G6

Polybutylene Terephthalate

Marplex Australia Pty. Ltd.

Message:

ASTADUR™ B4300G6 is a 30% glass fibre reinforced 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,30% Filler by Weight		
Features	Good Chemical Resistance		
	Good Processability		
	High Heat Resistance		
	High Rigidity		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.53	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (250°C/2.16 kg)	14	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.00 mm)	0.30 to 0.70	%	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 ¹ (3.20 mm)	125	MPa	ASTM D638
Tensile Elongation ² (Break, 3.20 mm)	2.0	%	ASTM D638
Flexural Modulus ³ (3.20 mm)	6800	MPa	ASTM D790
Flexural Strength ⁴ (3.20 mm)	170	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.20 mm)	50	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 3.20 mm	220	°C	
1.8 MPa, Unannealed, 3.20 mm	215	°C	
Vicat Softening Temperature	220	°C	ASTM D1525 ⁵
CLTE - Flow	2.0E-5 to 3.0E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+16	ohms · cm	ASTM D257
Electric Strength	100	kV/mm	IEC 60243-1
Comparative Tracking Index (Solution A)	375	V	IEC 60112

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 60695.2.12
Injection	Nominal Value	Unit	
Drying Temperature	100 to 120	°C	
Drying Time	4.0 to 6.0	hr	
Rear Temperature	230 to 240	°C	
Middle Temperature	240 to 250	°C	
Front Temperature	250 to 260	°C	
Processing (Melt) Temp	250 to 270	°C	
Mold Temperature	90.0	°C	
Injection Pressure	60.0 to 140	MPa	
Injection Rate	Fast		
Back Pressure	0.300 to 1.00	MPa	
Clamp Tonnage	4.0 to 8.0	kN/cm ²	
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.	Loading 1 (10 N)		

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