

ASTADUR™ B5530

Polybutylene Terephthalate

Marplex Australia Pty. Ltd.

Message:

ASTADUR™ B5330 is a high strength grade of Polybutylene Terephthalate (PBT) polymer. It has excellent processability, high rigidity good dimensional stability and is resistant to chemical attack.

Note: The letters "UV" indicate UV stabilisation has been added [ie: ASTADUR™ B5530UV].

General Information			
Features	Good Chemical Resistance		
	Good Dimensional Stability		
	Good Processability		
	High Rigidity		
	High Strength		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.30	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (250°C/2.16 kg)	21	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.00 mm)	1.5	%	ASTM D955
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)	58.0	MPa	ASTM D638
Tensile Elongation ² (Break, 3.20 mm)	130	%	ASTM D638
Flexural Modulus ³ (3.20 mm)	2450	MPa	ASTM D790
Flexural Strength ⁴ (3.20 mm)	87.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.20 mm)	60	J/m	ASTM D256
Gardner Impact (3.20 mm)	> 85.0	J	ASTM D3029
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 3.20 mm	160	°C	
1.8 MPa, Unannealed, 3.20 mm	60.0	°C	
Vicat Softening Temperature	200	°C	ASTM D1525 ⁵
CLTE - Flow	1.0E-4	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 60695.2.12
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	230 to 270	°C
Mold Temperature	70.0 to 120	°C
Injection Pressure	40.0 to 130	MPa
Injection Rate	Slow-Moderate	
Back Pressure	0.200 to 0.350	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. | 1.3 mm/min |
| 4. | 1.3 mm/min |
| 5. | Loading 1 (10 N) |

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