

ASTALON™ E2000U

Polycarbonate
Marplex Australia Pty. Ltd.

Message:

ASTALON™ E2000U / E2001U / E2003U are the high viscosity (low melt flow) grades in the ASTALON™ range and are well suited to extrusion sheeting, rod and profile applications requiring UV stabilisation (U). Offering an excellent balance of transparency, toughness, UV stability, flame retardancy and processability, typical applications include fluorescent lamp tubes, telephone box enclosures, corrugated roof sheeting and shutter door panels.
Note: [Standard grade = E2000U] / [FDA approved = E2001U] / [Steam resistant = E2003U].

General Information			
Additive	UV Stabilizer		
Features	Flame Retardant		
	Good Processability		
	Good Toughness		
	Good UV Resistance		
	High Viscosity		
	Low Flow		
	Medium Clarity		
Uses	Corrugated Sheet		
	Housings		
	Sheet		
	Tubing		
Processing Method	Profile Extrusion		
	Sheet Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.20	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	6.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.00 mm)	0.60	%	ASTM D955
Water Absorption (24 hr)	0.24	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	123		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (3.20 mm)	65.0	MPa	ASTM D638
Tensile Elongation ² (Break, 3.20 mm)	120	%	ASTM D638
Flexural Modulus ³ (6.40 mm)	2350	MPa	ASTM D790
Flexural Strength ⁴ (6.40 mm)	90.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.20 mm)	1000	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, 6.40 mm	153	°C	
1.8 MPa, Unannealed, 6.40 mm	138	°C	
CLTE - Flow	6.5E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	2.1E+16	ohms·cm	ASTM D257
Dielectric Constant	2.85		ASTM D150
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.60 mm)	V-2		UL 94
Optical	Nominal Value	Unit	Test Method
Transmittance (Total, 3000 μm)	85.0	%	ASTM D1003
Extrusion	Nominal Value	Unit	
Drying Temperature	120 to 125	°C	
Drying Time	4.0 to 6.0	hr	
Cylinder Zone 1 Temp.	230 to 250	°C	
Cylinder Zone 2 Temp.	235 to 260	°C	
Cylinder Zone 3 Temp.	240 to 265	°C	
Cylinder Zone 4 Temp.	245 to 270	°C	
Cylinder Zone 5 Temp.	250 to 280	°C	
Melt Temperature	250 to 290	°C	
Die Temperature	240 to 280	°C	
Take-Off Roll	80.0 to 130	°C	
Back Pressure	10.0 to 25.0	MPa	
NOTE			
1.	20 mm/min		
2.	20 mm/min		
3.	2.8 mm/min		
4.	2.8 mm/min		

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