

ASTALON™ S3500UR

Polycarbonate
Marplex Australia Pty. Ltd.

Message:

ASTALON™ S3500UR / S3501UR / S3503UR are the low/medium viscosity (very high melt flow) grades in the ASTALON™ range and are well suited to "difficult to fill" moulding applications requiring UV stabilisation (UV), a mould release agent (R), and a high notched impact resistance. Offering an excellent balance of transparency, toughness, heat resistance, flame retardency and processability, typical applications include electrical switch housings and junction box covers.

Note: [Standard grade = S3500UR] / [FDA approved = S3501UR] / [Steam resistant = S3503UR].

General Information			
Additive	Mold Release		
	UV Stabilizer		
Features	Flame Retardant		
	Good Processability		
	Good Toughness		
	High Clarity		
	High Flow		
	High Heat Resistance		
	High Impact Resistance		
	Medium-low Viscosity		
Uses	Electrical Housing		
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)	23	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)	62.0	MPa	ASTM D638
Tensile Elongation ² (Break, 3.20 mm)	110	%	ASTM D638
Flexural Modulus ³ (6.40 mm)	2350	MPa	ASTM D790
Flexural Strength ⁴ (6.40 mm)	87.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.20 mm)	550	J/m	ASTM D256
Gardner Impact (3.20 mm)	75.0	J	ASTM D3029
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648

0.45 MPa, Unannealed, 6.40 mm	142	°C	
1.8 MPa, Unannealed, 6.40 mm	133	°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 (3000 μm)	85.0	%	ASTM D1003
Injection	Nominal Value	Unit	
Drying Temperature	120 to 125	°C	
Drying Time	4.0 to 6.0	hr	
Rear Temperature	230 to 245	°C	
Middle Temperature	240 to 255	°C	
Front Temperature	255 to 265	°C	
Processing (Melt) Temp	240 to 270	°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	40 to 60	rpm	
Clamp Tonnage	4.0 to 8.0	kN/cm ²	
NOTE			
1.	20 mm/min		
2.	20 mm/min		
3.	2.8 mm/min		
4.	2.8 mm/min		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



WECHAT