

ASTALAC™ ASA 307

Acrylonitrile Styrene Acrylate

Marplex Australia Pty. Ltd.

Message:

ASTALAC™ ASA 307 is a premium impact toughness extrusion grade of ASA which is designed for applications requiring a combination of impact strength, abuse resistance, product rigidity and processability. As ASA grades show superior colour and property retention compared to ABS, typical thermoformed applications include advertising signage blanks and rooftop air conditioner panels.

Note: The letters "UV" or "W" indicate additional UV stabilisation [ie: ASTALAC™ ASA 307UV].

General Information			
Features	Good Color Stability		
	Good Impact Resistance		
	Good Processability		
	Medium Rigidity		
Processing Method	Extrusion		
	Thermoforming		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.06	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	4.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.00 mm)	0.60	%	ASTM D955
Water Absorption (24 hr)	0.25	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	90		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (3.20 mm)	40.0	MPa	ASTM D638
Tensile Elongation ² (Break, 3.20 mm)	70	%	ASTM D638
Flexural Modulus ³ (3.20 mm)	2150	MPa	ASTM D790
Flexural Strength ⁴ (3.20 mm)	65.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.20 mm)	480	J/m	ASTM D256
Gardner Impact (3.20 mm)	45.0	J	ASTM D3029
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
1.8 MPa, Unannealed, 3.20 mm	77.0	°C	
1.8 MPa, Unannealed, 12.7 mm	87.0	°C	
Vicat Softening Temperature	104	°C	ASTM D1525 ⁵
CLTE - Flow	9.0E-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 60695.2.12
Injection	Nominal Value	Unit
Drying Temperature	85.0 to 90.0	°C
Drying Time	3.0 to 6.0	hr
Processing (Melt) Temp	190 to 230	°C
Back Pressure	10.0 to 25.0	MPa
Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	170 to 190	°C
Cylinder Zone 2 Temp.	175 to 200	°C
Cylinder Zone 3 Temp.	180 to 205	°C
Cylinder Zone 4 Temp.	185 to 210	°C
Cylinder Zone 5 Temp.	190 to 220	°C
Die Temperature	180 to 220	°C
Take-Off Roll	75.0 to 105	°C
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)	

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