

ASTALOY™ PC/ASA 403

Acrylonitrile Styrene Acrylate + PC

Marplex Australia Pty. Ltd.

Message:

ASTALOY™ PC/ASA 403 is a profile extrusion/injection moulding alloy of ASA and Polycarbonate and is designed for applications requiring a high degree of product flexibility, UV stability, impact toughness, heat resistance and processability. Typical applications include extruded roadside post profiles as well as injection moulded components such as automotive grilles, rear decor panels and exterior B-pillars.

Note: The letters "U" or "W" indicate additional UV stabilisation [ie: ASTALOY™ PC/ASA 403U].

General Information			
Features	Good Flexibility		
	Good Impact Resistance		
	Good Processability		
	Good UV Resistance		
	Medium Heat Resistance		
Uses	Automotive Applications		
	Automotive Exterior Parts		
Processing Method	Injection Molding		
	Profile Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.12	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (250°C/3.8 kg)	6.5	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)	108		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (3.20 mm)	50.0	MPa	ASTM D638
Tensile Elongation ² (Break, 3.20 mm)	150	%	ASTM D638
Flexural Modulus ³ (3.20 mm)	2250	MPa	ASTM D790
Flexural Strength ⁴ (3.20 mm)	76.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.20 mm)	700	J/m	ASTM D256
Gardner Impact (3.20 mm)	60.0	J	ASTM D3029
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
1.8 MPa, Unannealed, 3.20 mm	94.0	°C	
1.8 MPa, Unannealed, 6.40 mm	99.0	°C	

1.8 MPa, Unannealed, 12.7 mm	104	°C	
Vicat Softening Temperature	132	°C	ASTM D1525 ⁵
CLTE - Flow	7.2E-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	95.0 to 100	°C	
Drying Time	3.0 to 5.0	hr	
Rear Temperature	235 to 255	°C	
Middle Temperature	245 to 265	°C	
Front Temperature	255 to 275	°C	
Processing (Melt) Temp	250 to 280	°C	
Mold Temperature	50.0 to 90.0	°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.	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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