

ASTALOY™ PC/PET C70L9S

Polycarbonate + PET
Marplex Australia Pty. Ltd.

Message:

ASTALOY™ PC/PET C70L9S is an alloy of Polycarbonate (PC) and Polyethylene Terephthalate (PET) polymer which features extremely high impact strength, a high chemical resistance, high rigidity, high processing thermal stability and heat resistance.
Note: The letter "U" indicates UV stabilisation has been added [ie: ASTALOY™ PC/PET C70L9US].

General Information			
Features	Ultra-high impact resistance		
	Rigidity, high		
	Good chemical resistance		
	Heat resistance, high		
	Thermal stability, good		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.22	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	20	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.00 mm)	0.70	%	ASTM D955
Water Absorption (24 hr)	0.10	%	ASTM D570
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)	59.0	MPa	ASTM D638
Tensile Elongation ² (Break, 3.20 mm)	> 180	%	ASTM D638
Flexural Modulus ³ (3.20 mm)	2250	MPa	ASTM D790
Flexural Strength ⁴ (3.20 mm)	86.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.20 mm)	900	J/m	ASTM D256
Dart Drop Impact (3.20 mm)	100	J	ASTM D3029
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
1.8 MPa, unannealed, 3.20mm	112	°C	ASTM D648
1.8 MPa, unannealed, 6.40mm	118	°C	ASTM D648
1.8 MPa, unannealed, 12.7mm	124	°C	ASTM D648
Vicat Softening Temperature	155	°C	ASTM D1525 ⁵
CLTE - Flow	6.5E-5	cm/cm/°C	ASTM D696
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.60 mm)	HB		UL 94
Glow Wire Flammability Index (1.60 mm)	750	°C	AS/NZS 60695
Injection	Nominal Value	Unit	

Drying Temperature	120 - 140	°C
Drying Time	4.0 - 6.0	hr
Rear Temperature	250 - 260	°C
Middle Temperature	260 - 270	°C
Front Temperature	270 - 280	°C
Processing (Melt) Temp	270 - 290	°C
Mold Temperature	60.0 - 90.0	°C
Injection Pressure	60.0 - 140	MPa
Injection Rate	Slow-Moderate	
Back Pressure	0.300 - 1.00	MPa
Clamp Tonnage	4.0 - 8.0	kN/cm ²

Injection instructions

Screw Speed: Minimum

NOTE

- | | |
|----|------------|
| 1. | 50 mm/min |
| 2. | 50 mm/min |
| 3. | 1.3 mm/min |
| 4. | 1.3 mm/min |
| 5. | 压力1 (10N) |

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