

Duroloy® AS-41

Polycarbonate + ABS

Unigel Plásticos

Message:

Medium flow rate. For injection molding and electroplating.

Main applications: automotive and electrical-electronic.

General Information			
Features	Low Temperature Impact Resistance		
	Medium Flow		
Uses	Automotive Applications		
	Electrical/Electronic Applications		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.10	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (260°C/5.0 kg)	12	g/10 min	ASTM D1238, ISO 1133
Molding Shrinkage - Flow	0.55 to 0.75	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.20	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2200	MPa	ASTM D638, ISO 527-2
Tensile Strength			ASTM D638, ISO 527-2
Yield	44.0	MPa	
Break	44.0	MPa	
Tensile Elongation			ASTM D638, ISO 527-2
Yield	5.0	%	
Break	65	%	
Flexural Modulus	2300	MPa	ASTM D790, ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-30°C, 3.20 mm	300	J/m	
23°C, 3.20 mm	390	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed	112	°C	ASTM D648, ISO 75-2/B
1.8 MPa, Unannealed, 3.20 mm	95.0	°C	ASTM D648
1.8 MPa, Unannealed	95.0	°C	ISO 75-2/A
Vicat Softening Temperature			

--	113	°C	ASTM D1525, ISO 306/B50 2 ¹
--	115	°C	ASTM D1525, ISO 306/B120 3 ²
Flammability	Nominal Value		Test Method
Flame Rating (1.50 mm)	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	110	°C	
Drying Time	4.0	hr	
Rear Temperature	250	°C	
Middle Temperature	260	°C	
Front Temperature	270	°C	
Nozzle Temperature	260	°C	
Processing (Melt) Temp	240 to 280	°C	
Mold Temperature	70.0 to 100	°C	
NOTE			
1.	Rate A (50°C/h), Loading 2 (50 N)		
2.	Rate B (120°C/h), Loading 2 (50 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

