

ASTALAC™ ABS TR52

Acrylonitrile Butadiene Styrene

Marplex Australia Pty. Ltd.

Message:

ASTALAC™ ABS TR52 is a transparent grade of ABS. It has good processability and good physical properties such as high impact strength and rigidity. It is equally at home being moulded in appliance, home wares, electronics, toys, bulk food systems and stationary applications. It has better chemical resistance than GPPS and better impact strength than SAN. Complies with the requirements of the (USA) FDA21 CFR181.32 (b) (3) "Acrylonitrile copolymers and resins".

General Information			
Features	Good Chemical Resistance		
	Good Processability		
	High Impact Resistance		
	High Rigidity		
Uses	Appliances		
	Electrical/Electronic Applications		
	Household Goods		
	Non-specific Food Applications		
	Stationary Supplies		
	Toys		
Agency Ratings	FDA 21 CFR 181.32(b)(3)		
Appearance	Clear/Transparent		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.08	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR)			ASTM D1238
220°C/10.0 kg	11	g/10 min	
230°C/3.8 kg	4.0	g/10 min	
Molding Shrinkage - Flow (3.00 mm)	0.50	%	ASTM D955
Water Absorption (24 hr)	0.30	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	101		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (3.20 mm)	39.0	MPa	ASTM D638
Tensile Elongation ² (Break, 3.20 mm)	24	%	ASTM D638
Flexural Modulus ³ (3.20 mm)	1900	MPa	ASTM D790
Flexural Strength ⁴ (3.20 mm)	60.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.20 mm)	120	J/m	ASTM D256
Gardner Impact (3.20 mm)	26.0	J	ASTM D3029

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 3.20 mm)	70.0	°C	ASTM D648
Vicat Softening Temperature	99.0	°C	ASTM D1525 ⁵
CLTE - Flow	9.0E-5	cm/cm/°C	ASTM D696
Flammability	Nominal Value	Unit	Test Method
Flame Rating (3.00 mm)	HB		UL 94
Glow Wire Ignition Temperature (3.00 mm)	550	°C	AS/NZS 60695.2.12
Optical	Nominal Value	Unit	Test Method
Transmittance (3000 μm)	89.0	%	ASTM D1003
Haze (3000 μm)	3.0	%	ASTM D1003
Injection	Nominal Value	Unit	
Drying Temperature	70.0 to 80.0	°C	
Drying Time	3.0 to 6.0	hr	
Rear Temperature	190 to 205	°C	
Middle Temperature	205 to 220	°C	
Front Temperature	220 to 235	°C	
Processing (Melt) Temp	220 to 230	°C	
Mold Temperature	40.0 to 70.0	°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	3.0 to 6.0	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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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



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