ASTALAC™ ABS TX52

Acrylonitrile Butadiene Styrene

Marplex Australia Pty. Ltd.

Message:

ASTALAC™ ABS TX52 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.
ASTALAC™ ABS TX52 complies with the requirements of the (USA) FDA21 CFR181.32 (b) (3) "Acrylonitrile copolymers and resins" limitations for acrylonitrile monomer extraction

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	1.10	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR)			ASTM D1238
220°C/10.0 kg	16	g/10 min	
230°C/3.8 kg	7.0	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)	107		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength [1] (3.20 mm)	43.0	MPa	ASTM D638
Tensile Elongation [2] (Break, 3.20 mm)	30	%	ASTM D638
Flexural Modulus [3] (3.20 mm)	2000	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)	120	J/m	ASTM D256

Gardner Impact (3.20 mm)	10.0	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	97.0	°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)		

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