

Toyolac® 500-322

Acrylonitrile Butadiene Styrene

Toray Resin Company

Message:

Toyolac® 500-322 is an Acrylonitrile Butadiene Styrene (ABS) product. It is available in Asia Pacific, Europe, or North America.

Characteristics include:

Flame Rated

Rigid

General Information			
Features	High Rigidity		
Part Marking Code	>ABS<		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.05	g/cm ³	ASTM D792
23°C	1.05	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	20	g/10 min	ISO 1133
Molding Shrinkage	0.40 to 0.60	%	Internal Method
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, 23°C)	116		ASTM D785, ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
--	54.0	MPa	ASTM D638
23°C	59.0	MPa	ISO 527-2
Tensile Elongation			
Break	37	%	ASTM D638
Break, 23°C	12	%	ISO 527-2
Flexural Modulus			
--	2600	MPa	ASTM D790
23°C	2690	MPa	ISO 178
Flexural Strength			
--	81.0	MPa	ASTM D790
23°C	89.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	13	kJ/m ²	ISO 179
Notched Izod Impact			ASTM D256
-30°C, 3.20 mm	78	J/m	
-30°C, 12.7 mm	69	J/m	
0°C, 3.20 mm	98	J/m	
0°C, 12.7 mm	98	J/m	

23°C, 3.20 mm	140	J/m	
23°C, 12.7 mm	140	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, Unannealed, 6.40 mm	88.0	°C	ASTM D648
1.8 MPa, Unannealed	85.0	°C	ISO 75-2/A
Vicat Softening Temperature	95.0	°C	
CLTE - Flow	6.9E-5	cm/cm/°C	ASTM D696
Flammability	Nominal Value		Test Method
Flame Rating	HB		UL 94

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

