

Toyolac® 500 322

Acrylonitrile Butadiene Styrene
Toray Plastics (Malaysia) Sdn. Bhd.

Message:

Toyolac® 500 322 is an Acrylonitrile Butadiene Styrene (ABS) material. It is available in Asia Pacific or Europe.
Important attributes of Toyolac® 500 322 are:
Flame Rated
RoHS Compliant

General Information			
RoHS Compliance	RoHS Compliant		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.05	g/cm ³	ASTM D792
--	1.04	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	20	g/10 min	ISO 1133
Molding Shrinkage - Flow	0.40 to 0.60	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.30	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	118		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3000	MPa	ISO 527-2/1
Tensile Strength			
Yield ¹	55.0	MPa	ASTM D638
Yield	59.0	MPa	ISO 527-2/50
Tensile Elongation			
Break ²	37	%	ASTM D638
Break	> 10	%	ISO 527-2/50
Flexural Modulus ³	2600	MPa	ASTM D790
Flexural Strength			
-- ⁴	82.0	MPa	ASTM D790
-- ⁵	89.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	14	kJ/m ²	ISO 179/1eA
Notched Izod Impact			ASTM D256
-30°C, 3.20 mm	80	J/m	
-30°C, 12.7 mm	70	J/m	
0°C, 3.20 mm	98	J/m	
0°C, 12.7 mm	98	J/m	
23°C, 3.20 mm	180	J/m	

23°C, 12.7 mm	150	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, Unannealed, 6.40 mm	89.0	°C	ASTM D648
1.8 MPa, Unannealed, 12.7 mm	94.0	°C	ASTM D648
1.8 MPa, Unannealed	85.0	°C	ISO 75-2/A
CLTE - Flow	6.9E-5	cm/cm/°C	ASTM D696
Thermal Conductivity	0.15	W/m/K	ASTM C177
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity ⁶	> 1.0E+16	ohms	ASTM D257
Volume Resistivity (23°C)	> 1.0E+16	ohms·cm	ASTM D257
Dielectric Strength ⁷	22	kV/mm	ASTM D149
Dielectric Constant (1 kHz)	3.10		ASTM D150
Dissipation Factor (1 kHz)	5.6E-3		ASTM D150
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94
NOTE			
1.	5.0 mm/min		
2.	5.0 mm/min		
3.	3.0 mm/min		
4.	3.0 mm/min		
5.	2.0 mm/min		
6.	23°C		
7.	Method A (Short-Time)		

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