

Toyolac® SX01

Polyamide 6 + ABS
Toray Resin Company

Message:

Toyolac® SX01 is a Polyamide 6 + ABS (Nylon 6+ABS) product. It is available in Asia Pacific, Europe, or North America. Primary characteristic: flame rated.

General Information			
UL YellowCard	E41797-233338		
Part Marking Code	>PA6+ABS<		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.07	g/cm ³	ASTM D792
23°C	1.07	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (240°C/10.0 kg)	22	g/10 min	ISO 1133
Molding Shrinkage	0.60 to 1.3	%	Internal Method
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, 23°C)	103		ASTM D785, ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
--	46.0	MPa	ASTM D638
23°C	51.0	MPa	ISO 527-2
Tensile Elongation			
Break	50	%	ASTM D638
Break, 23°C	50	%	ISO 527-2
Flexural Modulus			
--	1780	MPa	ASTM D790
23°C	1860	MPa	ISO 178
Flexural Strength			
--	68.0	MPa	ASTM D790
23°C	72.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	74	kJ/m ²	ISO 179
Notched Izod Impact			ASTM D256
23°C, 3.20 mm	880	J/m	
23°C, 12.7 mm	590	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, Unannealed, 6.40 mm	78.0	°C	ASTM D648
1.8 MPa, Unannealed	67.0	°C	ISO 75-2/A

Flammability	Nominal Value	Test Method
Flame Rating	HB	UL 94

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