

Toyolac® 450Y X10

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

Message:

Toyolac® 450Y X10 is an Acrylonitrile Butadiene Styrene (ABS) material. It is available in Asia Pacific or Europe.
Important attributes of Toyolac® 450Y X10 are:
Flame Rated
RoHS Compliant

General Information			
RoHS Compliance		RoHS Compliant	
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.07	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	6.0	g/10 min	ISO 1133
Molding Shrinkage - Flow	0.50 to 0.80	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	111		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2360	MPa	ISO 527-2/1
Tensile Strength			
Yield ¹	46.0	MPa	ASTM D638
Yield	53.0	MPa	ISO 527-2/50
Tensile Elongation			
Break ²	12	%	ASTM D638
Break	> 10	%	ISO 527-2/50
Flexural Modulus ³	2300	MPa	ASTM D790
Flexural Strength			
-- ⁴	77.0	MPa	ASTM D790
-- ⁵	80.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	16	kJ/m ²	ISO 179/1eA
Notched Izod Impact (23°C, 12.7 mm)	150	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, Unannealed, 6.40 mm	98.0	°C	ASTM D648
1.8 MPa, Unannealed	95.0	°C	ISO 75-2/A
Flammability	Nominal Value		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

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

