

Toyolac® 450Y MH1

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

Message:

Toyolac® 450Y MH1 is an Acrylonitrile Butadiene Styrene (ABS) material. It is available in Asia Pacific or Europe.
Important attributes of Toyolac® 450Y MH1 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)	4.0	g/10 min	ISO 1133
Molding Shrinkage - Flow	0.60 to 0.90	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	111		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2300	MPa	ISO 527-2/1
Tensile Strength			
Yield ¹	41.0	MPa	ASTM D638
Yield	46.0	MPa	ISO 527-2/50
Tensile Elongation			
Break ²	26	%	ASTM D638
Break	> 10	%	ISO 527-2/50
Flexural Modulus ³	2060	MPa	ASTM D790
Flexural Strength			
-- ⁴	64.0	MPa	ASTM D790
-- ⁵	69.0	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
23°C, 3.20 mm	190	J/m	
23°C, 12.7 mm	170	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, Unannealed, 6.40 mm	104	°C	ASTM D648
1.8 MPa, Unannealed	98.0	°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

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Recommended distributors for this material

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