

Toyolac® 450Y-X10

Acrylonitrile Butadiene Styrene

Toray Resin Company

Message:

Toyolac® 450Y-X10 is an Acrylonitrile Butadiene Styrene (ABS) product. It is available in Asia Pacific, Europe, or North America.

Characteristics include:

Flame Rated

Heat Resistant

General Information			
Features	High Heat Resistance		
Part Marking Code	>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) (220°C/10.0 kg)	6.0	g/10 min	ISO 1133
Molding Shrinkage	0.50 to 0.80	%	Internal Method
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, 23°C)	111		ASTM D785, ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
--	46.0	MPa	ASTM D638
23°C	53.0	MPa	ISO 527-2
Tensile Elongation			
Break	12	%	ASTM D638
Break, 23°C	10	%	ISO 527-2
Flexural Modulus			
--	2300	MPa	ASTM D790
23°C	2360	MPa	ISO 178
Flexural Strength			
--	77.0	MPa	ASTM D790
23°C	80.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	16	kJ/m ²	ISO 179
Notched Izod Impact			ASTM D256
-30°C, 3.20 mm	98	J/m	
-30°C, 12.7 mm	91	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	98.0	°C	ASTM D648
1.8 MPa, Unannealed	95.0	°C	ISO 75-2/A
Vicat Softening Temperature	105	°C	
Flammability	Nominal Value	Test Method	
Flame Rating	HB	UL 94	

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