

Toyolac® 440Y-X01

Acrylonitrile Butadiene Styrene

Toray Resin Company

Message:

Toyolac® 440Y-X01 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	Medium Heat Resistance		
Part Marking Code	>ABS<		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.06	g/cm ³	ASTM D792
23°C	1.06	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	10	g/10 min	ISO 1133
Molding Shrinkage	0.50 to 0.70	%	Internal Method
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, 23°C)	115		ASTM D785, ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
--	44.0	MPa	ASTM D638
23°C	54.0	MPa	ISO 527-2
Tensile Elongation			
Break	15	%	ASTM D638
Break, 23°C	12	%	ISO 527-2
Flexural Modulus			
--	2500	MPa	ASTM D790
23°C	2470	MPa	ISO 178
Flexural Strength			
--	77.0	MPa	ASTM D790
23°C	82.0	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, 3.20 mm	210	J/m	
23°C, 12.7 mm	160	J/m	

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, Unannealed, 6.40 mm	95.0	°C	ASTM D648
1.8 MPa, Unannealed	92.0	°C	ISO 75-2/A
Vicat Softening Temperature	100	°C	
Flammability	Nominal Value		Test Method
Flame Rating	HB		UL 94

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