Toyolac™ 440Y X01 U

Toray Industries, Inc. - Acrylonitrile Butadiene Styrene

General Information

Product Description			
Heat resistant			
General			
Features	• High Heat Resistance		
Uses	• Automotive Applications • Automotive Electronics	• Automotive Interior Parts • Kitchenware	• Switches • White Goods & Small Appliances
Processing Method	• Injection Molding		
ISO Designation	• >ABS<		

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density (73°F)	1.06	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	10	g/10 min	ISO 1133
Molding Shrinkage [2]	0.50 to 0.70	%	Internal Method
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress (73°F)	7830	psi	ISO 527-2
Tensile Strain (Break, 73°F)	12	%	ISO 527-2
Flexural Modulus (73°F)	358000	psi	ISO 178
Flexural Stress (73°F)	11900	psi	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength (73°F)	7.6	ft·lb/in²	ISO 179
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale, 73°F)	115		ISO 2039-2
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ISO 75-2/A
264 psi, Unannealed	198	°F	
Vicat Softening Temperature	212	°F	
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating (0.06 in)	HB		UL 94

Notes

[1] Typical properties: these are not to be construed as specifications.

[2] 23°C/50%RH