

Toyolac® 450Y

Acrylonitrile Butadiene Styrene

Toray Resin Company

General			
Material Status	• Commercial: Active		
Availability	• Asia Pacific	• Europe	• North America
Features	• High Heat Resistance		
Forms	• Pellets		

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.07	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/10.0 kg)	3.2	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.40 to 0.70	%	ASTM D955

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (23°C)	43.0	MPa	ASTM D638
Tensile Elongation (Break, 23°C)	20	%	ASTM D638
Flexural Modulus (23°C)	2160	MPa	ASTM D790
Flexural Strength (23°C)	69.0	MPa	ASTM D790

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 12.7 mm)	186	J/m	ASTM D256

Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	111		ASTM D785

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load 1.8 MPa, Unannealed, 6.40 mm	100	°C	ASTM D648

Flammability	Nominal Value	Unit	Test Method
Flame Rating - UL	HB		UL 94
UL File Number	E41797		

Notes

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

