



Toyolac™ 700 SG5 U

Toray Industries, Inc. - Acrylonitrile Butadiene Styrene

General Information

Product Description			
High gloss			
General			
Features	<ul style="list-style-type: none"> Pleasing Surface Appearance 		
Uses	<ul style="list-style-type: none"> Closures Communication Applications Cosmetics 	<ul style="list-style-type: none"> High Gloss Applications Television Housings Toys 	<ul style="list-style-type: none"> White Goods & Small Appliances
Processing Method	<ul style="list-style-type: none"> Injection Molding 		
ISO Designation	<ul style="list-style-type: none"> >ABS< 		

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density (73°F)	1.05	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	26	g/10 min	ISO 1133
Molding Shrinkage ²	0.30 to 0.60	%	Internal Method
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (73°F)	8120	psi	ISO 527-2
Tensile Strain (Break, 73°F)	10	%	ISO 527-2
Flexural Modulus (73°F)	371000	psi	ISO 178
Flexural Stress (73°F)	12200	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (73°F)	6.2	ft·lb/in ²	ISO 179
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, 73°F)	116		ISO 2039-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ISO 75-2/A
264 psi, Unannealed	180	°F	
Vicat Softening Temperature	203	°F	
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.05 in)	HB		UL 94
Optical	Nominal Value	Unit	Test Method
Gloss (60°)	98		Internal Method

Notes

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

² 23°C/50%RH