

Toyolac™ 900 352 U

Toray Industries, Inc. - Methyl Methacrylate / ABS

General Information

Product Description			
Medium impact			
General			
Features	<ul style="list-style-type: none"> High Impact Resistance 	<ul style="list-style-type: none"> Pleasing Surface Appearance 	
Uses	<ul style="list-style-type: none"> Automotive Interior Parts Camera Applications Cell Phones 	<ul style="list-style-type: none"> Cosmetics Fishing Applications Toys 	<ul style="list-style-type: none"> White Goods & Small Appliances Writing Instruments
Appearance	<ul style="list-style-type: none"> Clear/Transparent 		
Processing Method	<ul style="list-style-type: none"> Extrusion Film Extrusion 	<ul style="list-style-type: none"> Injection Molding Sheet Extrusion 	
ISO Designation	<ul style="list-style-type: none"> >MABS< 		

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density (73°F)	1.08	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	18	g/10 min	ISO 1133
Molding Shrinkage ²	0.40 to 0.60	%	Internal Method
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (73°F)	6960	psi	ISO 527-2
Tensile Strain (Break, 73°F)	15	%	ISO 527-2
Flexural Modulus (73°F)	271000	psi	ISO 178
Flexural Stress (73°F)	9570	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (73°F)	5.7	ft·lb/in ²	ISO 179
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, 73°F)	108		ISO 2039-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load 264 psi, Unannealed	169	°F	ISO 75-2/A
Vicat Softening Temperature	194	°F	
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.05 in)	HB		UL 94
Optical	Nominal Value	Unit	Test Method
Light Transmittance ³ (Total)	86.0	%	ISO 13468
Haze ³	2.00	%	ISO 14782

Notes

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

² 23°C/50%RH

³ 23°C/50%RH, 3mm thickness