

Toyolac™ 910 X01 U

Toray Industries, Inc. - Methyl Methacrylate / ABS

General Information

Product Description

Scratch resistant

General

Features	<ul style="list-style-type: none"> • Good Scratch Resistance • High Flow 	<ul style="list-style-type: none"> • High Strength • Pleasing Surface Appearance
Uses	<ul style="list-style-type: none"> • Cosmetics 	<ul style="list-style-type: none"> • Writing Instruments
Appearance	<ul style="list-style-type: none"> • Clear/Transparent 	
Processing Method	<ul style="list-style-type: none"> • Film Extrusion 	<ul style="list-style-type: none"> • Injection Molding • Sheet Extrusion
ISO Designation	<ul style="list-style-type: none"> • >MABS< 	

Properties¹

Physical	Nominal Value	Unit	Test Method
Density (73°F)	1.10	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	28	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)	8270	psi	ISO 527-2
Tensile Strain (Break, 73°F)	13	%	ISO 527-2
Flexural Modulus (73°F)	381000	psi	ISO 178
Flexural Stress (73°F)	12300	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (73°F)	2.9	ft-lb/in ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load 264 psi, Unannealed	172	°F	ISO 75-2/A
Vicat Softening Temperature	185 to 194	°F	
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.06 in)	HB		UL 94
Optical	Nominal Value	Unit	Test Method
Light Transmittance ³ (Total)	87.0	%	ISO 13468
Haze ³	3.00	%	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