

## Basic physical properties

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### A310MX04

Glass fiber + inorganic filler reinforced / standard

Grade				A310MX04
Property	Units	Test method	-	
Specific Gravity	-	D792	1.96	
Water Absorption	23 °C, 24hr in water	%	D570	0.02
Tensile Strength	23 °C	MPa	D638	140
Elongation	23 °C	%	D638	2.1
Flexural Strength	23 °C	MPa	D790	200
Flexural Modulus	23 °C	GPa	D790	17.6
Share Strength	-	D732	60	
Izod Impact	V-notched	23 °C	J/m	90
	Unnotched	23 °C	kJ/m <sup>2</sup>	20
Rockwell Hardness	R-SCALE	D785	123	
Taber abrasion	mg/1000 cycles	D1044	70	
Coefficient of friction	vs. steel	-	D1894	0.30
Limit PV value	kJ/m <sup>2</sup> hr	TORAY	815	
Melting Point	°C	DSC	278	
Heat Deformation Temperature	1.82MPa	°C	D648	>260
Liner Thermal Expansion	Machine direction	× 10 <sup>-5</sup> /K	D696	1.6
	Transverse direction			2.4
UL-94 Flame Class	-	UL-94	V-0	
Volume Resistivity	Ω · m	D257	10 <sup>16</sup>	
Dielectric Strength	MV/m	D149	15	
Dielectric Constant	10 <sup>6</sup> Hz	-	D150	5.8
Dissipation factor	10 <sup>6</sup> Hz	-	D150	0.002
Arc resistance(W electrode)	second	D495	180	
Mold Shrinkage(3mm)	Machine direction	%	TORAY	0.15
	Transverse direction			0.55
Minimum injection pressure(1/8"t)	MPa	TORAY	-	
Bar flow 320 °C ,98MPa, 1mmt	× 10 <sup>-3</sup> m	TORAY	90	

Notes:These values are typical data for this product under specific test conditions and not intended for use as limiting specifications.

- ABS Resin  
**TOYOLAC™**
- Nylon Resin  
*Amilan™*
- PBT Resin  
**TORAYCON.**
- PPS Resin  
**TORELINA.**
- LCP Resin  
**SIVERAS**
- Super EP  
**TI Polymer**
- Polyolefin Foam  
**TORAYPEF**