

## ISO Property | LOTTE Advanced Materials

starex.	Grade	WX-9310UV
	Resin Type	ASA

Weatherability, Heat Resistance, Automotive

Mold Shrinkage (MD)         ISO 2577         Flow at 3.2mm (MD)           Mold Shrinkage (TD)         ISO 2577         X-Flow at 3.2mm (TD)           Mechanical           Tensile Strength at Yield         ISO 527         50mm/min           Tensile Strain at break         ISO 527         50mm/min           Tensile Modulus         ISO 527         50mm/min           Tensile Strength at break         ISO 527         50mm/min           Flexural Strength         ISO 178         2mm/min           Flexural Modulus         ISO 178         2mm/min	- 1.08 /10min 6.0
Melt Flow Index         ISO 1133         220°c, 10kg         gg           Mold Shrinkage (MD)         ISO 2577         Flow at 3.2mm (MD)           Mold Shrinkage (TD)         ISO 2577         X-Flow at 3.2mm (TD)           Mechanical           Tensile Strength at Yield         ISO 527         50mm/min           Tensile Strain at break         ISO 527         50mm/min           Tensile Modulus         ISO 527         50mm/min           Tensile Strength at break         ISO 527         50mm/min           Flexural Strength         ISO 178         2mm/min           Flexural Modulus         ISO 178         2mm/min	·
Mold Shrinkage (MD)         ISO 2577         Flow at 3.2mm (MD)           Mold Shrinkage (TD)         ISO 2577         X-Flow at 3.2mm (TD)           Mechanical           Tensile Strength at Yield         ISO 527         50mm/min           Tensile Strain at break         ISO 527         50mm/min           Tensile Modulus         ISO 527         50mm/min           Tensile Strength at break         ISO 527         50mm/min           Flexural Strength         ISO 178         2mm/min           Flexural Modulus         ISO 178         2mm/min	/10min 6.0
Mold Shrinkage (TD)         ISO 2577         X-Flow at 3.2mm(TD)           Mechanical           Tensile Strength at Yield         ISO 527         50mm/min           Tensile Strain at break         ISO 527         50mm/min           Tensile Modulus         ISO 527         50mm/min           Tensile Strength at break         ISO 527         50mm/min           Flexural Strength         ISO 178         2mm/min           Flexural Modulus         ISO 178         2mm/min	
Tensile Strength at Yield ISO 527 50mm/min  Tensile Strain at break ISO 527 50mm/min  Tensile Modulus ISO 527 50mm/min  Tensile Strength at break ISO 527 50mm/min  Tensile Strength at break ISO 527 50mm/min  Flexural Strength ISO 178 2mm/min  Flexural Modulus ISO 178 2mm/min	% 0.4-0.7
Tensile Strength at Yield         ISO 527         50mm/min           Tensile Strain at break         ISO 527         50mm/min           Tensile Modulus         ISO 527         50mm/min           Tensile Strength at break         ISO 527         50mm/min           Flexural Strength         ISO 178         2mm/min           Flexural Modulus         ISO 178         2mm/min	% 0.4-0.7
Tensile Strain at break         ISO 527         50mm/min           Tensile Modulus         ISO 527         50mm/min           Tensile Strength at break         ISO 527         50mm/min           Flexural Strength         ISO 178         2mm/min           Flexural Modulus         ISO 178         2mm/min	
Tensile Modulus         ISO 527         50mm/min           Tensile Strength at break         ISO 527         50mm/min           Flexural Strength         ISO 178         2mm/min           Flexural Modulus         ISO 178         2mm/min	MPa 49
Tensile Strength at break ISO 527 50mm/min  Flexural Strength ISO 178 2mm/min  Flexural Modulus ISO 178 2mm/min	% 12
Flexural Strength ISO 178 2mm/min Flexural Modulus ISO 178 2mm/min	MPa 2200
Flexural Modulus ISO 178 2mm/min	MPa 37
	MPa 70
Izod Impact Strength (notched) ISO 180 1A at 23°C. 4mm	MPa 2400
,	KJ/m <sup>2</sup> 16
Charpy Impact Strength (V- ISO 179 1eA at 23°C, 4mm	KJ/m <sup>2</sup> 14
Rockwell Hardness ISO 2039-2 R-scale	- 106
Thermal	
Heat Deflection ISO 75-2 1.8MPa, 4.0mm	°C 80
Heat Deflection ISO 75-2 0.45MPa, 4.0mm	°C 96
Heat Deflection ISO 75-2 1.8MPa, 4.0mm	°C 102
Heat Deflection ISO 75-2 0.45MPa, 4.0mm	°C 106
VICAT Softening Temperature ISO R 306 B/50	°C 101
VICAT Softening Temperature ISO R 306 B/120	

<sup>1.</sup> The value above is the representative value of the NP or representative color and may have deviation. It can only be used for selecting materials.

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<sup>2.</sup> The value above shall not be regarded as a material specification and cannot be used for molding designs.

<sup>\*</sup> The last update date : 12/02/2016