

## Polycasa SAN

Category : Polymer , Thermoplastic , SAN Polymer

### Material Notes:

QUINN SAN sheets are characterized by good optical properties and a brilliant surface. The QUINN SAN range contains sheets that are easy to handle, to vacuum form, and show a very good dimensional stability. Typical for QUINN SAN sheets are their very good chemical resistance: they are resistant to most fats, dilute acid solutions, oils and common bleaching agents, as well as some solvents and weak alkaline solutions. The sheets can be used in- and outdoor (in UVP-version) and are resistant to temperature fluctuations. QUINN SAN products can be used in contact with foodstuffs. QUINN SAN material also combines the following excellent properties: High softening point, low water absorption, and high stiffness. Industrial (door) glazing Covers for foodstuffs Covers for office equipment Screen printing Advertising signs Fittings for shops and exhibitions Displays Flat or curved shower screens Greenhouse glazing Room dividers Quinn Manufacturing Group rebranded its Plastics Division as Polycasa in 2013.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Polycasa-SAN.php](http://www.lookpolymers.com/polymer_Polycasa-SAN.php)

Physical Properties	Metric	English	Comments
Density	1.08 g/cc	0.0390 lb/in <sup>3</sup>	ISO 1183

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	83	83	ISO 2039-2
Tensile Strength at Break	60.0 MPa	8700 psi	ISO 527-2
Elongation at Break	1.8 %	1.8 %	ISO 527-2
Tensile Modulus	3.90 GPa	566 ksi	ISO 527-2
Flexural Strength	105 MPa	15200 psi	ISO 178
Flexural Modulus	3.75 GPa	544 ksi	ISO 178
Izod Impact, Notched (ISO)	1.30 kJ/m <sup>2</sup>	0.619 ft-lb/in <sup>2</sup>	ISO 180
Charpy Impact Unnotched	1.30 J/cm <sup>2</sup>	6.19 ft-lb/in <sup>2</sup>	ISO 179-1

Thermal Properties	Metric	English	Comments
CTE, linear	50.0 - 70.0 µm/m-°C	27.8 - 38.9 µin/in-°F	DIN 53752
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Specific Heat Capacity	1.38 J/g-°C	0.330 BTU/lb-°F	ASTM D2766
Thermal Conductivity	0.170 W/m-K	1.18 BTU-in/hr-ft <sup>2</sup> -°F	DIN 52612
Maximum Service Temperature, Air	85.0 °C	185 °F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (264 psi)	101 °C	214 °F	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	98.0 °C	208 °F	ISO 75
Vicat Softening Point	106 °C	223 °F	ISO 306
Decomposition Temperature	>= 280 °C	>= 536 °F	

Optical Properties	Metric	English	Comments
Refractive Index	1.57	1.57	ISO 489
Transmission, Visible	86 %	86 %	DIN 5036-3

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+14 ohm-cm	1.00e+14 ohm-cm	IEC 6093
Surface Resistance	>= 1.00e+14 ohm	>= 1.00e+14 ohm	IEC 6093

Processing Properties	Metric	English	Comments
Processing Temperature	165 - 190 °C	329 - 374 °F	Sheet Forming

## Contact Songhan Plastic Technology Co.,Ltd.

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