

## Technical Data Sheet

# Sustarin<sup>®</sup> H (Delrin<sup>®</sup>) AF 20 - ASTM

### Typical characteristics

- Good dimensional stability
- Very wear resistant
- Good sliding properties

### Typical industries

- Systèmes de convoyage et automatisés
- Construction de machines et d'installations
- Industrie électronique

	Test method	Unit	Guideline value
<b>General properties</b>			
Specific Gravity	ASTM D792	g / cm <sup>3</sup>	1.54
Water Absorption 24 hours	ASTM D570	%	0.2
Dissipation Factor	ASTM D150	1MHz	0.009
Water Absorption Saturation	ASTM D570	%	0.8
<b>Mechanical properties</b>			
Hardness	ASTM D785	Shore D	D76
Tensile Strength at yield 73°F	ASTM D638	psi	6630
Tensile Modulus	ASTM D638	psi	540000
Elongation at Break	ASTM D638	%	30
Flexural Strength	ASTM D790	psi	12500
Flexural Modulus	ASTM D790	psi	405000
Compressive Strength	ASTM D695	psi	12600
Rockwell Hardness	ASTM D785		M50
Rockwell Hardness	ASTM D785	R	R110
<b>Thermal properties</b>			
Thermal Conductivity		in/hr/ft <sup>2</sup> /F°	2
CTE, linear	ASTM D696	in/in/°F	4.4x10 <sup>-5</sup>
Melting Point	ASTM D3418	°F	350
Deflection Temperature at 1.8Mpa (264psi)	ASTM D648	°F	244
Deflection Temperature at 1.8Mpa (66psi)	ASTM D648	°F	334

### Röchling Industrial Gastonia, LP

903 Gastonia Technology Parkway • 28034 Dallas/United States (US) • Tel. +1 704 922-7814  
 info.gastonia@roechling.com • www.roechling.com/industrial/rep-us

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Page 1 / 2 (Dates in DD/MM/YYYY)



	Test method	Unit	Guideline value
Continuous Use		°F	185
Flammability, UL94		1/8 inch	HB
<b>Electrical properties</b>			
Dielectric constant	ASTM D150		3.1
Dielectric strength	ASTM D149	V/mil	400
Surface resistivity	ASTM D257	Ω/cm	10 <sup>16</sup>
<b>Compliance properties</b>			
FDA			No
NSF			No
USDA			No

All Information correspond to the current state of our knowledge. The above mentioned values are ranges ascertained by statistical tests on a regular base. They display product information and should be used as guide only to choose from our range of materials. We do not ensure specific properties or suitabilities for particular applications. The material properties rely e.g. on the product dimension, thus the actual value of a particular product may differ from indicated values. Additional specific properties and values can be provided on request. Our material selection for a specific application is based on information by the customer. Despite given recommendation for applications by Röchling Industrial Xanten GmbH, the enduser is still liable to ensure that no third party is affected legally. Furthermore please refer to our general terms and conditions (AGB) <https://www.roechling-industrial.com/gtc>

