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Design

Processes

Units

Formulas

Math

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General Information
[Polymer Home](#)
[Glossary](#)
Material Science
[Overview](#)
[Characteristics](#)
[Comparisons](#)
Selection Criteria
[Applications](#)
[Flow Characteristics](#)
[Datasheet Primer](#)
Major Categories
[Polymer Index](#)
[History Timeline](#)
[List by Process](#)
[Thermoplastic/Thermoset](#)
Specific Polymer
[Category / Grades](#)
[Datasheet](#)
[Supplier Info](#)
Resources
[Bibliography](#)
[Login](#)
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Polyurethane

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State: thermoplastic

Additives: 30% long glass fiber reinforced

Material Properties

Mechanical Properties		Conditions		
		State 1	State 2	ASTM
Elastic Modulus (MPa)	7590	tensile		D638
Flexural Modulus (MPa)	7590	23 °C		D790
Tensile Strength (MPa)	167	at break		D638
Compressive Strength (MPa) at yield or break	170 - 177			D695
Flexural Strength (MPa) at yield or break	244			D790
Elongation at break (%)	3			D638
Izod Impact (J/cm of notch) 1/8" thick specimen unless noted	3.3 - 4.0			D256A

Thermal Properties		Conditions		
		Pressure	State	ASTM
Deflection Temperature (°C)	85	1.82 MPa		D648

Physical & Electrical Properties		Conditions	
		State	ASTM
Specific Gravity	1.43		D792

Processing Properties		Conditions	
		Type	ASTM
Melting Temperature (°C)	240	T _m , crystalline	
Processing Temperature (°C)	227 - 260	injection molding	
Molding Pressure (MPa)	69 - 138		
Compression Ratio	3		
Linear Mold Shrinkage (cm/cm)	0.002 - 0.006		D955

Suppliers
[RTP Co.](#)

Winona, MN 800-433-4787

[Ticona](#)

Summit, NJ 800-526-4960

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