

Rauh Polymers, Inc.

Optimum®
2014-XE

Typical Property Values	Conditions	Test Method ASTM/Other	Units	Value
Physical				
Melt Flow Rate	300°C, 1.2 kg. (O)	D 1238	g/10 minutes	25
Density		D 792	g/cm ³	1.19
Mold Shrinkage	Flow Direction Specimen 0.125"/3.2mm	D 955	in/in mm/mm	0.005-0.007
Water Absorption	24 Hours @ 73°F/23°C Equilibrium @ 73°F/23°C	D 570	%	0.15
			%	0.35
Mechanical				
Izod Impact Strength	Notched	D 256	ft-lb/in	15
Dart Impact				320+
Tensile Strength at Yield	Type 1 Bar	D 638	psi	8,000
Tensile Elongation at Yield	Type 1 Bar Specimen 0.125"/3.2mm	D 638	%	6.5
Tensile Elongation at Break	Type 1 Bar Specimen 0.125"/3.2mm	D 638	%	125
Flexural Modulus	Specimen 0.125"/3.2mm	D 790	psi	300,000
Rockwell Hardness		D 785	M Scale	75
			R Scale	118
Thermal				
Heat Deflection Temperature	66 psi (0.125/unannealed) 0.46 Mpa (3.2mm unannealed)	D 648	°C	105
	264 psi (0.125/unannealed) 1.82 Mpa (3.2mm unannealed)	D 648	°C	95
Flammability				
UL 94 Flame Class	Specimen 0.125"/3.2mm			HB

The data provided above are typical properties for natural resin only, and are not part of the product specifications. The applications and conditions of use for this product including technical assistance and information are beyond our control. Users of this product are responsible for evaluating this product to ensure to their own satisfaction that it is suitable for their intended use. All information is given without warranty or guarantee. Before working with this product, users must read and follow the available health, safety and environmental information that is available regarding product hazards, proper use and handling.