RAUH Polymers, Inc. **OPTIMUM®**

Optimum® DATA SHEET

Property	Conditions	Test Method ASTM/Other	Units	800 Grade Results	800 Metal Flake Results	2000 Grade Results
Physical						
Melt Flow Rate	O - 300° C @ 1.2 KG			40-50	50	100
Density		D 792	g/cm^3	1.19	1.2	1.22
Mold Shrinkage	Flow Direction	D 955	in/in	0.005-0.008	0.005-0.008	0.005-0.008
	Type 1 Bar		mm/mm	.1269-.2030	.1269-.2030	
Mechanical						
Izod Impact Strength	Notched	D 256	ft-lb/in	17+	12	26 NB
Dart Impact				320in/lb +	320in/lb +	
						320in/lb +
Tensile Strength at Yield	Type 1 Bar	D 638	psi	7,700	7,000	7,000
	Type 1 Bar		MPa	53.05	48.23	53.05
Tensile Elongation at Break	Type 1 Bar	D 638	%	150	120	500
Flexural Modulus		D 790	psi	300,000	300,000	250,000
					2067	
Thermal						
Heat Deflection Temperature	66 psi (0.125/unannealed)	D 648	°F	257	257	150
	0.46 Mpa (3.2mm unannealed)		°C	125	125	65
Flammability						
UL 94 Flame Class	Specimen 1.6mm	UL 94		HB V-0 grades available	HB	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 itended use. All information is given without warrenty or guarantee. Before working with this product, users must read and familiarize themselves with the available health, safety and environmental information that is available regarding product hazards, proper use and handling.

RAUH Polymers, Inc.				OPTIMUM® 800
Optimum® DATA SHEET				
Property	**Conditions**	**Test Method ASTM/Other**	**Units**	**800 Grade Results**
Physical				
Melt Flow Rate	O - 300° C @ 1.2 KG			40-50
Density		D 792	g/cm^3	1.19
Mold Shrinkage	Flow Direction	D 955	in/in	0.005-0.008
	Type 1 Bar		mm/mm	.1269-.2030
Mechanical				
Izod Impact Strength	Notched	D 256	ft-lb/in	17+
Dart Impact				320in/lb +
Tensile Strength at Yield	Type 1 Bar	D 638	psi	7,700
	Type 1 Bar		MPa	53.05
Tensile Elongation at Break	Type 1 Bar	D 638	%	150
Flexural Modulus		D 790	psi	300,000
Thermal				
Heat Deflection Temperature	66 psi (0.125/unannealed)	D 648	^oF	257
	0.46 Mpa (3.2mm unannealed)		^oC	125
Flammability				
UL 94 Flame Class	Specimen 1.6mm	UL 94		HB V-0 grades available

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RAUH Polymers, Inc. **OPTIMUM® 800 MF**

Optimum® DATA SHEET

Property	Conditions	Test Method ASTM/Other	Units	800 Metal Flake Results
Physical				
Melt Flow Rate	O - 300° C @ 1.2 KG			50
Density		D 792	g/cm^3	1.2
Mold Shrinkage	Flow Direction	D 955	in/in	0.005-0.008
	Type 1 Bar		mm/mm	.1269-.2030
Mechanical				
Izod Impact Strength	Notched	D 256	ft-lb/in	12
Dart Impact				320in/lb +
Tensile Strength at Yield	Type 1 Bar	D 638	psi	7,000
	Type 1 Bar		MPa	48.23
Tensile Elongation at Break	Type 1 Bar	D 638	%	120
Flexural Modulus		D 790	psi	300,000
			Mpa	2067
Thermal				
Heat Deflection Temperature	66 psi (0.125/unannealed)	D 648	^oF	257
	0.46 Mpa (3.2mm unannealed)		^oC	125
Flammability				
UL 94 Flame Class	Specimen 1.6mm	UL 94		HB

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RAUH Polymers, Inc. **OPTIMUM® 2000**

Optimum® DATA SHEET

Typical Property Values	Conditions	Test Method ASTM/Other	Units	2000 Grade Results
Physical				
Melt Flow Rate	O - 300° C @ 1.2 KG			100
Density		D 792	g/cm^3	1.22
Mold Shrinkage	Flow Direction	D 955	in/in	0.005-0.008
	Specimen 0.125"/3.2mm		mm/mm	
Mechanical				
Izod Impact Strength	Notched	D 256	ft-lb/in	26 NB
RT and -40	Specimen 0.125"/3.2mm			
Dart Impact				320in/lb +
Tensile Strength at Yield	Type 1 Bar	D 638	psi	7,000
	Specimen 0.125"/3.2mm			
	Type 1 Bar		MPa	53.05
Tensile Elongation at Break	Type 1 Bar	D 638	%	500
	Specimen 0.125"/3.2mm			
Flexural Modulus	Specimen 0.125"/3.2mm	D 790	psi	250,000
Thermal				
Heat Deflection Temperature	66 psi (0.125/unannealed)	D 648	°F	150
	0.46 Mpa (3.2mm unannealed)		°C	65
Optical				
Light Transmission				
Haze	CLEAR VERSION AVAILABLE			
Refractive Index				
Flammability				
UL 94 Flame Class	Specimen 0.062"/1.6mm	UL 94		HB

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