

# Redco™ Tuffkast 010

## Technical Data Sheet



PROPERTIES	TEST METHOD	UNIT	VALUE
Specific Gravity	ASTM D 792	1.13	g/mc <sup>3</sup>
Tensile Strength	ASTM D 638	8,500 - 10,000	PSI
Elongation At Break	ASTM D 638	45 - 70	
Tensile Modulus	ASTM D 638	400,000	PSI
Compressive Strength (10% Defl.)	ASTM D 695	12,000	PSI
Flexural Strength	ASTM D 790	16,000	PSI
Flexural Modulus	ASTM D 790	320,000	PSI
Notched Izod Impact	ASTM D 625	2 - 2.74	Ft-lb/in
Coefficient of Friction		0.08 - 0.13	Dry vs. Steel
Hardness	ASTM D 2248	74-80	Shore D
Water Absorption			
24 hrs	ASTM D 570	0.20 - 0.35	(% weight increase)
Equilibrium	ASTM D 570	0.50 - 2	(% weight increase)

### Thermal Properties

Burn Rate	UL 94	V-2	
Flammability	ASTM D 639	self-ext.	
Melting Point	ASTM D 789	428	°F
Max Service Temp			
Continuous		220 - 250	°F
Intermittent		280 - 300	°F
Coefficient of Thermal Expansion	ASTM D696	5.5 x 10 <sup>-5</sup>	in/in°F
Continuous Operating Temp.		-40 to 250	°F

### Electrical Characteristics

Dielectric Strength	ASTM D 149	500 - 600	V/mil (short time)
Dielectric Constant			
At 60 htz	ASTM D 150	3.70	
At 10 <sup>-5</sup> htz	ASTM D 150	3.70	

We cannot anticipate all conditions under which this information and our products, or the products of other manufacturers in combination with our products, may be used. We accept no responsibility for results obtained by the application of this information or the safety and suitability of our products, whether alone or in combination with other products. Users are advised to make their own tests to determine the safety and suitability of each such product or product combination for their own purposes. Unless otherwise agreed in writing, we sell the products without warranty, and buyers and users assume all responsibility and liability for loss or damage arising from the handling and use of our products, whether used alone or in combination with other products. For most recent technical information, phone in USA or in Canada.

PROPERTIES	TEST METHOD	UNIT	VALUE
Specific Gravity	ASTM D 792	1.14	g/mc <sup>3</sup>
Tensile Strength	ASTM D 638	8,500 - 10,000	PSI
Elongation At Break	ASTM D 638	45 - 80	
Tensile Modulus	ASTM D 638	390,000	PSI
Compressive Strength (10% Defl.)	ASTM D 695	12,000	PSI
Flexural Strength	ASTM D 790	16,000	PSI
Flexural Modulus	ASTM D 790	320,000	PSI
Notched Izod Impact	ASTM D 625	2 - 2.74	Ft-lb/in
Coefficient of Friction		0.13 - 0.15	Dry vs. Steel
Hardness	ASTM D 2248	74-80	Shore D
Water Absorption			
24 hrs	ASTM D 570	0.20	(% weight increase)
Equilibrium	ASTM D 570	0.50 - 2	(% weight increase)

#### Thermal Properties

Burn Rate	UL 94	V-2	
Flammability	ASTM D 639	self-ext.	
Melting Point	ASTM D 789	428	°F
Max Service Temp			
Continuous		220 - 250	°F
Intermittent		280 - 300	°F
Coefficient of Thermal Expansion	ASTM D696	5.5 x 10 <sup>-5</sup>	in/in°F
Continuous Operating Temp.		-40 to 250	°F

#### Electrical Characteristics

Dielectric Strength	ASTM D 149	500 - 600	V/mil (short time)
Dielectric Constant			
At 60 htz	ASTM D 150	3.70	
At 10 <sup>-5</sup> htz	ASTM D 150	3.70	

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PROPERTIES	TEST METHOD	UNIT	VALUE
Specific Gravity	ASTM D 792	1.14	g/mc <sup>3</sup>
Tensile Strength	ASTM D 638	8,500 - 11,000	PSI
Elongation At Break	ASTM D 638	50 - 80	
Tensile Modulus	ASTM D 638	380,000	PSI
Compressive Strength (10% Defl.)	ASTM D 695	12,000	PSI
Flexural Strength	ASTM D 790	16,000	PSI
Flexural Modulus	ASTM D 790	300,000	PSI
Notched Izod Impact	ASTM D 625	1.7 - 3.0	Ft-lb/in
Coefficient of Friction		0.30	Dry vs. Steel
Hardness	ASTM D 2248	74-80	Shore D
Water Absorption			
24 hrs	ASTM D 570	0.20	(% weight increase)
Equilibrium	ASTM D 570	0.80 - 2	(% weight increase)

#### Thermal Properties

Burn Rate	UL 94	V-2	
Flammability	ASTM D 639	self-ext.	
Melting Point	ASTM D 789	428	°F
Max Service Temp			
Continuous		220 - 250	°F
Intermittent		280 - 300	°F
Coefficient of Thermal Expansion	ASTM D696	5.5 x 10 <sup>-5</sup>	in/in°F
Continuous Operating Temp.		-40 to 250	°F

#### Electrical Characteristics

Dielectric Strength	ASTM D 149	500 - 600	V/mil (short time)
Dielectric Constant			
At 60 htz	ASTM D 150	3.70	
At 10 <sup>-5</sup> htz	ASTM D 150	3.70	

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# Redco™ Tuffkast 025

## Technical Data Sheet



PROPERTIES	TEST METHOD	UNIT	VALUE
Specific Gravity	ASTM D 792	1.14	g/mc <sup>3</sup>
Tensile Strength	ASTM D 638	8,500 - 11,000	PSI
Elongation At Break	ASTM D 638	40 - 70	
Tensile Modulus	ASTM D 638	400,000	PSI
Compressive Strength (10% Defl.)	ASTM D 695	12,000 - 13,000	PSI
Flexural Strength	ASTM D 790	16,300	PSI
Flexural Modulus	ASTM D 790	350,000	PSI
Notched Izod Impact	ASTM D 625	1.83 - 2.74	Ft-lb/in
Coefficient of Friction		0.30 - 0.40	Dry vs. Steel
Hardness	ASTM D 2248	74-80	Shore D
Water Absorption			
24 hrs	ASTM D 570	0.2	(% weight increase)
Equilibrium	ASTM D 570	0.8 - 2	(% weight increase)

### Thermal Properties

Burn Rate	UL 94	V-2	
Flammability	ASTM D 639	self-ext.	
Melting Point	ASTM D 789	428	°F
Max Service Temp			
Continuous		220 - 250	°F
Intermittent		280 - 300	°F
Coefficient of Thermal Expansion	ASTM D696	5.5 x 10 <sup>-5</sup>	in/in°F
Continuous Operating Temp.		-40 to 250	°F

### Electrical Characteristics

Dielectric Strength	ASTM D 149	500 - 600	V/mil (short time)
Dielectric Constant			
At 60 htz	ASTM D 150	3.70	
At 10 <sup>-5</sup> htz	ASTM D 150	3.70	

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