Redco™ Tuffkast 010
Technical Data Sheet

REDWOOD PLASTICS AND RUBBER

PROPERTIES	TEST METHOD	UNIT	VALUE
Specific Gravity	ASTM D 792	1.13	g/mc^3
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^{-5}	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^{-5} htz	ASTM D 150	3.70	

REDWOOD PLASTICS AND RUBBER

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Redco™ Tuffkast 015
Technical Data Sheet

REDWOOD PLASTICS AND RUBBER

PROPERTIES	TEST METHOD	UNIT	VALUE
Specific Gravity	ASTM D 792	1.14	g/mc^3
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^{-5}	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^{-5} htz	ASTM D 150	3.70	

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Redco™ Tuffkast 020
Technical Data Sheet

REDWOOD PLASTICS AND RUBBER

PROPERTIES	TEST METHOD	UNIT	VALUE
Specific Gravity	ASTM D 792	1.14	g/mc^3
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^{-5}	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^{-5} htz	ASTM D 150	3.70	

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Redco™ Tuffkast 025
Technical Data Sheet

REDWOOD PLASTICS AND RUBBER

PROPERTIES	TEST METHOD	UNIT	VALUE
Specific Gravity	ASTM D 792	1.14	g/mc^3
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^{-5}	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^{-5} htz	ASTM D 150	3.70	

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