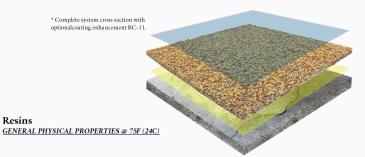
Complete System Properties

Property Tested	Value/Tolerance	Test method	Definition	
Tensile Strength	60 psi (413 kPa)	ASTM D412	Standard Test Methods for Vulcanized Rubber and Thermoplastic Rubbers and Thermoplastic Elastomers-Tension.	
Tear Resistance	140%	ASTM D624	Standard Test Method for Tear Strength of Conventional Vulcanized Rubber and Thermoplastic Elastomers	
Dry Static Coefficient of Friction	0.68	ASTM D2047	Standard Test Method for Static Coefficient of Friction of Polish-Coated Floor Surfaces as Measured by the James Machine	
Wet Static Coefficient of Friction	0.52			
Dry Skid Resistance	0.68	ASTM E303	Standard Test Method for Measuring Surface Frictional Properties Using the British Pendulum Tester	
Wet Skid Resistance	0.52			
Hardness Recovery	94%	ASTM D2444-17	Standard Practice for Determination of the Impact Resistance of Thermoplastic Pipe and Fittings by Means of a Tup (Falling Weight)	
Flammability	Pass	ASTM D2859	Standard Test Method for Flammability of Finished Textile Floor Covering Materials	
Spread Of Flame Resistance	Class A	ANSI/UL 790 (ULC-S107)	Standard Test Methods for Fire Tests of Roof Coverings (EPDM)	
Shock Attenuation	Meets Requirement	ASTM F1292	Standard Specification for Impact Attenuation of Surface Systems Under and Around Playground Equipment	
Head Injury Criteria	Meets Requirement			
Accessibility	Compliant	ASTM F1951	Standard Specification for Determination of Accessibility of Surface Systems Under and Around Playground Equipment	
Viability	Compliant	ASTM F2479-12	Standard Specification for Purchase, Installation and Maintenance of Poured-In-Place Playground Surfacing.	
Safety Performance	Compliant	ASTM F1487	Standard Consumer Safety Performance Specification for Playground Equipment for Public Use	
Component Comparisons	AVG 115	ASTM F1551-03	Standard Test for the Comprehensive Characterization of Synthetic Turf Playi Surfaces and Materials	
Ultraviolet Resistance	Trace to no growth	ASTM D3137	Standard Test Method for Rubber Property—Hydrolytic Stability Standard	
Fungal Resistance	Trace to no growth	ASTM G21	Practice for Determining Resistance of Synthetic Polymeric Materials to Fungi	
Water Absorption	+6.5	ASTM D530	Methods of Testing Hard Rubber Products (Withdrawn 1987)	
Water Permeability	0.4 gal/yd2/second	ASTM F3191-16	Standard Practice for Field Determination of Substrate Water Absorption (Porosity) for Substrates to Receive Resilient Flooring	
Accelerated Weathering	200hrs	ASTM D1148 -13	Standard Test Method for Rubber Deterioration—Discoloration from Ultraviolet (UV) or UV/Visible Radiation and Heat Exposure of Light-Colored Surfaces	



UV Stabil

Property Tested	Value/Tolerance	Test method	Definition
Density (at 23°C)	~1,08 g/cm ³	ASTM D4659 - 19	Standard Test Methods for Polyurethane Raw Materials: Determination of Specific
	10 43		Gravity of Isocyanates
Viscosity (at 23°C)	2 500 ± 500 mPas	ASTM D4878 - 98	Standard Test Methods for Polyurethane Raw Materials Determination of Viscosity of Polyols
NCO Content	8,5 ± 0,5%	ASTM D2572 - 19	Standard Test Method for Isocyanate Groups in Urethane Materials or Prepolymers
VOC	0 g/L	ASTM D3960 - 05	Standard Practice for Determining Volatile Organic Compound (VOC) Content of Paints and Related Coatings Active Standard ASTM D3960 Developed by Subcommittee: D01.21
Solids by weight	100	ASTM D-2369	Standard Test Method for Volatile Content of Coatings
Solids by volume	100	ASTM D-2697	Standard Test Method for Volume Nonvolatile Matter in Clear or Pigmented Coatings
Pot Life 50% RH	20-30 mins*	ASTM D2471-71	Standard Test Method for Gel Time and Peak Exothermic Temperature of Reacting
(1-gallon mass)			Thermosetting Resins
Tack Free Time	8.0 hrs*	ASTM D5895-03 &	Standard Test Methods for Evaluating Drying or Curing During Film Formation of
50% RH		ASTM D3924-80	Organic Coatings Using Mechanical Recorders
Light Traffic Time	24-48 hrs.		Standard Specification for Standard Environment for Conditioning and Testing Paint,
50% RH			Varnish, Lacquer, and Related Materials
Recoat Time	8-24 hrs.		5-200-100 (1970 Populari 1980 (1970 Populari 1970 1970 1970 1970 1970 1970 1970 1970
Tensile Strength	3000-13900 psi	ASTM D412	Standard Test Methods for Vulcanized Rubber and Thermoplastic
			Elastomers—Tension
Tensile Elongation	10 - 86 %		
Gloss	93+	ASTM D523	Standard Test Method for Specular Gloss
Rubcorp Basic Density (at 23°C)	~1,09 g/cm³	ASTM D4659 - 19	Standard Test Methods for Polyurethane Raw Materials: Determination of Specific
		PERMITTED STATES OF STATES	Gravity of Isocyanates
Viscosity (at 23°C)	6500 mPas	ASTM D4878 - 98	Standard Test Methods for Polyurethane Raw Materials Determination of Viscosity of Polyols
NCO Content	10.5 - 11.5%	ASTM D2572 - 19	Standard Test Method for Isocyanate Groups in Urethane Materials or Prepolymers
VOC	0 g/L	ASTM D3960 - 05	Standard Practice for Determining Volatile Organic Compound (VOC) Content of Paints and Related Coatings Active Standard ASTM D3960 Developed by Subcommittee: D01.21
Solids by weight	100%	ASTM D-2369	Standard Test Method for Volatile Content of Coatings
Solids by volume	100%	ASTM D-2697	Standard Test Method for Volume Nonvolatile Matter in Clear or Pigmented Coatings
Pot Life 50% RH	20-30 mins*	ASTM D2471-71	Standard Test Method for Gel Time and Peak Exothermic Temperature of Reacting
(1-gallon mass)			Thermosetting Resins
Tack Free Time	8.0 hrs*	ASTM D5895-03 &	Standard Test Methods for Evaluating Drying or Curing During Film Formation of
50% RH		ASTM D3924-80	Organic Coatings Using Mechanical Recorders
Light Traffic Time 50% RH	24-48 hrs.		Standard Specification for Standard Environment for Conditioning and Testing Paint, Varnish, Lacquer, and Related Materials
Recoat Time	8-24 hrs.		
Tensile Strength	4,500 - 5,500 psi	ASTM D412	Standard Test Methods for Vulcanized Rubber and Thermoplastic Elastomers—Tension
Tensile Elongation	350 - 400%		Innovaria I charm
Tear Resistance	500 ± 100 pli		
Gloss			
Gioss	-95 GU	ASTM D523	Standard Test Method for Specular Gloss

Rubcorp Hard

Density (at 23°C)	1.11 g/cm ³	ASTM D4659 - 19	Standard Test Methods for Polyurethane Raw Materials: Determination of Specific Gravity of Isocyanates
Viscosity (at 23°C)	2100 mPas	ASTM D4878 - 98	Standard Test Methods for Polyurethane Raw Materials Determination of Viscosity of Polyols
NCO Content	13.5 - 14.5%	ASTM D2572 - 19	Standard Test Method for Isocyanate Groups in Urethane Materials or Prepolymers
VOC	0 g/L	ASTM D3960 - 05	Standard Practice for Determining Volatile Organic Compound (VOC) Content of Paints and Related Coatings Active Standard ASTM D3960 Developed by Subcommittee: D01.21
Solids by weight	100%	ASTM D-2369	Standard Test Method for Volatile Content of Coatings
Solids by volume	100%	ASTM D-2697	Standard Test Method for Volume Nonvolatile Matter in Clear or Pigmented Coatings
Pot Life 50% RH	20-30 mins*	ASTM D2471-71	Standard Test Method for Gel Time and Peak Exothermic Temperature of Reacting
(1-gallon mass)			Thermosetting Resins
Tack Free Time	8.0 hrs*	ASTM D5895-03 &	Standard Test Methods for Evaluating Drying or Curing During Film Formation of
50% RH		ASTM D3924-80	Organic Coatings Using Mechanical Recorders
Light Traffic Time 50% RH	24-48 hrs.		Standard Specification for Standard Environment for Conditioning and Testing Paint, Varnish, Lacquer, and Related Materials
Recoat Time	8-24 hrs.		
Tensile Strength	5,500 - 6,500 psi	ASTM D412	Standard Test Methods for Vulcanized Rubber and Thermoplastic Elastomers—Tension
Tensile Elongation	300 - 350%		
Tear Resistance	500 ± 100 pli		
Gloss	~105 GU	ASTM D523	Standard Test Method for Specular Gloss



EPDM

Property Tested	Value/Tolerance	Test method
Density	1.6+/- 0.03 g/cm ³	
Identation Hardness	60 +/- 5 0°Sh A	PN-EN ISO 868:2005
Tensile strength	> 5 [MPa	PN-EN ISO 37:2007
Elongation at break	> 500 %	
Bulk density 0.0 - 0.5 mm	450 g/l	PN-EN ISO 1097-3:2000
0.5 - 1.5 mm 1.0 - 3.5 mm Polymer content Base polymer	450 g/1 670 g/1 > 24 EPDM	
Flammability class version standard:	Fulfills requirements	PN-EN ISO 13501-1+A1:2010
Flammability class version indoor: Migration of certain elements	Fulfills requirements Fulfills requirements	DIN EN 71-3:2013-05
Environmental Contaminants	Fulfills requirements	AfPS GS 2014:01
DOC, EOX, heavy metals, other	Fulfills requirements	DIN 18035-7
Sieve Analysis (Particle Size)		ASTM D - 5644
Free Fiber Content	0.00%	ASTM D - 5603
ASTM E-11 & ISO 3310-1 (mm)		ASTM E-11 / ISO 3310-1 (mm)
STANDARD GRAIN SIZE	Average values (%)	

Definition

Plastics - Methods for determining the density of noncellular plastics - Part I: Immersion method liquid promoneter method and titration method Plastics & Ebonite - Determination of indentation hardness by means of a durometer (Shore hardness by means of a durometer (Shore hardness by Carlotte (Shore hardness) of the other Rubber, vulcanized or thermoplastic - Determination of ensile stress-train properties (Foreils Strength). Rubber, vulcanized or thermoplastic - Determination, tendos stress-train powerfies (Foreils Strength).

Tests for mechanical and physical properties of aggregate

rire Classification of Construction Products & Building Elements - Part 1: Classification Using Data From Reaction to Fire Tests

Safety of Toys - part 3: Migration of certain elements (if swallowed by child)

(if swanowed by child)
Testing and assessment of polycyclic aromatic hydrocarbor
(PAHs) in the course of awarding the GS (Tested Safety) ma
Sports Grounds - Part 7: Synthetic Turf Areas (Withdrawn)

Standard Test Methods for Rubber Compounding Materials - Determination of Particle Size Distribution of Recylced Vulcanizate Particulate Rubber Standard Classification for Rubber Compounding Materials - Determination of Fiber Content in Rubber Pow

Standard Specification for Woven Wire Test Sieve Cloth and Test Sieves



RB-19

(Priming Product)

Property Tested Value/Tolerance Test method

		ASTM D3960 - 0
Solids by volume	92% (+ or - 1%)	ASTM D2697
Pot Life	10 minutes	ASTM D2471-7
Light Traffic Time	6 - 8 hrs	ASTM D5895-0
		ASTM D3924-80
Full Cure	48-72hrs	
Compressive Strength	6,800 psi	ASTM C579
Flexural Strength	2,700 psi	ASTM D790
Impact Resistance	PASS@ 125 mils	ASTM D2794
Hardness, Shore D		ASTM D2240
Microbial Resistant Flammability	Pass Self-Extinguishing	ASTM G21
Flash Point	>200°F	ASTM D6577

Definition

Contings Active Standard ASTM D3960 [Developed by Subcommittee D0.12]
Standard Test Method for Volume Nonvolatile Matter in Clear or Pignented Coatings
Standard Test Method for Volume Nonvolatile Matter in Clear or Pignented Coatings
Standard Test Method for Gri Time and Peak Exothermic Temperature of Reacting
Thermosciting Resins
Standard Test Methods for Evaluating Drying or Curing During Film Formation of Organic Coatings
Using Mechanical Recorders
Standard Test Microtino for Standard Environment for Conditioning and Testing Paint, Varnish, Lacqu

Standard Test Methods for Compressive Strength of Chemical-Resistant Mortars, Grouts, Monolithic Surfacings, and Polymer Concretes Standard Test Methods for Flexural Properties of Unreinforced and Reinforced Plastics and Electrical

Standard Test Methods for Flexural Properties of Unreinforced and Reinforced Plastics and Electrical Insulating Materials
Standard Test Method for Resistance of Organic Coatings to the Effects of Rapid Deformation (Impact

Standard Test Method for Resistance of Organic Coatings to the Effects of Rapid Deformation (Impo Standard Test Method for Robber Property—Durometer Hardness Standard Practice for Determining Resistance of Synthetic Polymeric Materials to Fungi

Standard Guide for Testing Industrial Protective Coating:

RC-11

(Coating Enhancement)

Property Tested (at 23°C) Value/Tolerance Test method Definition

Viscosity (mixed)	600cps	ASTM D445-83
Solids by weight		ASTM D-2369
Solids by volume	89%	ASTM D-2697
Surface Dry Time 50% RH	4.0 hrs	ASTM D5895-0
Hard Dry Time 50% RH	6.0 hrs	ASTM D3924-8
Tack Free	8.0 hrs	
Recoat Time	8-24 hrs	
Pot Life 50% RH	25 min	ASTM D2471-7
Tear Strength	900 lbs/in	ASTM D624 (die C)
Flexibility	Pass	ASTM D1737
Tensile Strength ASTM D412 Tensile Elongation ASTM D412	2,400psi 100%	ASTM D412
Gloss ASTM D523	90+	ASTM D523
Taber Abrasion	8 mg loss	ASTM D4060
Impact Resistance (Direct & Reverse)	160 in/lbs	ASTM D2794
Hardness	Shore A 85-90	ASTM D2240
Dry Static Coefficient of Friction	0.67	ASTM D-2047
Wet Static Coefficient of Friction	0.82	
Microbial Resistant	Pass	

andard Test Methods for Polyurethane Raw Materials Determination of Viscosity of Po andard Test Method for Volatile Content of Coatings andard Test Method for Volume Nonvolatile Matter in Clear or Pigmented Coatings

Standard 1 est Methods for Evaluating Dyring or Curing During Film Formation of Organic Coatings Using Mechanical Recorders Standard Specification for Standard Environment for Conditioning and Testing Paint, Varnis Lacquer, and Related Materials

Standard Test Method for Gel Time and Peak Exothermic Temperature of Reactin

Statutart 1 ets Avenuou in Get 1 me and Peak Exotuerinic 1 emperature of Reacting Thermosetting Resins Standard Test Method for Tear Strength of Conventional Vulcanized Rubber and Thermoslatic Electroner

Thermoplastic Elastomers Method of Test for Elongation of Attached Organic Coatings with Cylindrical Mandrel Apparatus

Standard Test Methods for Vulcanized Rubber and Thermoplastic Elastomers—

Standard Test Method for Specular Gloss

Shandard Test Method of Specular Gloss
Standard Test Method for Abrasion resistance of Organic Coatings by the Taber Abraser
Standard Test Method for Resistance of Organic Coatings to the Effects of Rapid Deformation
Standard Test Method for Robber Property—Durometre Hardness
Standard Test Method for Subber Property—Durometre Hardness
Standard Test Method for Subter Coefficient of Friction of Polish-Coated Floor Surfaces as
Massured by the James Machine

Standard Practice for Determining Resistance of Synthetic Polymeric Materials to Fung

