

MASTICATED RUBBER PHYSICAL PROPERTIES

Material: Fiber-reinforced masticated rubber

Rubber Content: Rubber compound consisting of reclaimed, recycled, natural, and/or synthetic rubbers



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PROPERTY	TEST METHOD	UNITS	REQUIREMENTS
Color	N/A	-	Black
No Silicone	N/A	-	Silicone Free
Density	ASTM D297-13	g/cm ³	0.9 - 1.3
Hardness	ASTM D2240-05	A scale	75-85
Ultimate Elongation With Grain Min.	ASTM D412-06a	%	15
Ultimate Elongation Across Grain Min.	ASTM D412-06a	%	40
Tensile Strength Ultimate with Grain Min.	ASTM D412-06a	MPa (psi)	5.2 (754)
Tensile Strength Ultimate across Grain Min.	ASTM D412-06a	MPa (psi)	3 (437)
Tear Strength Die B with Grain Min.	ASTM D624-00	kN/m (lbf/in)	26.25 (150)
Tear Strength Die B across Grain Min.	ASTM D624-00	kN/m (lbf/in)	52.5 (300)
Abrasion Resistance 1000 Cycle w/ CS17 Wheel Max.	ASTM D4060-10	mg	120
Ozone Resistance 100 pphm 50 hr @ 38C Min.			
Tear - With Grain	ASTM D1149-12	kN/m (lbf/in)	26.25 (150)
Tear - Against Grain	ASTM D1149-12	kN/m (lbf/in)	26.25 (150)
No Cracks Using 7x Magnification	ASTM D1149-12	kN/m (lbf/in)	No Cracks
Low Temperature Brittleness @ -40C Method C	ASTM D2137-11	-	Non-Brittle Both Directions using 7x Magnification
Flammability - Maximum Burn Rate 100 mm/mm	FMVSS 302	mm/mm	100 Max.
Weather Resistance 6 wks of N Indiana or Ill Exposure	ASTM D1171	-	100% Quality Retention
Air Aging 70 hours @ 70 C (158F)			
Hardness % Shore A Pts Max.	ASTM D573-04	%	+/-10
Ultimate Elongation With Grain Max.	ASTM D573-04	%	+/-25
Ultimate Elongation Across Grain Max.	ASTM D573-04	%	+/-25
Tensile Strength Ultimate with Grain Max.	ASTM D573-04	%	+/-25
Tensile Strength Ultimate across Grain Max.	ASTM D573-04	%	+/-25
Tear Resistance With Grain Max.	ASTM D573-04	%	+/-25
Tear Resistance Across Grain Max.	ASTM D573-04	%	+/-25
Surface Condition	-	-	Non-Brittle (no cracking) in both directions
Dimensional Tolerances			
Thickness	Thickness Nominal Size		Thickness Required
	mm	Inch	mm Inch
	3.0	1/8"	3.0 ± 0.5 0.125" ± 0.020"
	5.0	3/16"	5.0 ± 0.6 0.188" ± 0.025"
	over 5.0	over 3/16"	± 0.8 ± 0.030"
Width & Length	Width & Length		Tolerance
	mm	Inch	mm Inch
	0-100	4.00"	± 1.0 ± 0.040"
	101 - 250	4.01" - 10.00"	± 1.25 ± 0.050"
	over 251	over 10.01"	± .5% ± .5%