



SISAL PP BLANK (50% RECYCLED POLYPROPYLENE FIBER (PP) +
50% SISAL FIBER) – Grammage: 1000 g/m²

WSS- M98D37-A1

SISAL PP BLANK (50% RECYCLED POLYPROPYLENE FIBER (PP) +
50% SISAL FIBER) – Grammage: 2000 g/m²

WSS- M98D37-A2

SISAL PP BLANK (50% RECYCLED POLYPROPYLENE FIBER (PP) +
50% SISAL FIBER) – Grammage: 3000 g/m²

WSS- M98D37-A3

1. SCOPE

These specifications defines the minimum requirements of interior trim parts molded using sisal fiber and recycled polypropylene fiber (50% each) needled covered by carpet, woven, non woven, TPO sheet or other kind of finishing.

2. APPLICATION

These specifications were released for materials requirements for rear package trays, door trim panel, instrument panel, headliner, quarter trim panel, seat-back panel, A-, B-, C-, and D-pillar molding, center console, scuff plate and inner tailgate cover.

3. REQUIREMENTS

3.1 STANDARD REQUIREMENTS FOR PRODUCTION MATERIALS

Material suppliers and part producers must conform to the Company's Standard Requirements For Production Materials (WSS-M99P1111-A).

3.1.1 All requirements of this specification, identified by symbol (s), shall be met with data representing 3 sigma values.

3.2 APPEARANCE (FLTM BI 109-01)

The color, grain, gloss, and finish shall match the approved Design Center master sample, or shall be as specified on the engineering drawing.

3.3 SISAL PP BLANK PROPERTIES

All performance test must be done on molded blank with nominal thickness of 3 mm attending at east the results specified bellow for each **grammage** (g/m²).

Date	Action	Revisions
2008 03 20	Activated	



3.3.1		Determination of grammage (grams per square meter (g/m ²)) ISO 536 (Adapted to natural fiber blank)	A1	A2	A3
			1000 +/- 5%	2000 +/- 5%	3000 +/- 5%
(s)	3.3.2	Density (g/cm ³) (ISO 1183)	0.96 +/- 0.02	0.96 +/- 0.02	0.96 +/- 0.02
(s)	3.3.3	Impact Resistance			
	3.3.3.1	Rubber Ball 4.5 kg weight, 127 mm dia 60 +/- 5, Durometer "A", (ISO 686/ASTM D 2240) Room Temperature Impact (23 +/- 2 °C) Use Uncovered side to do the test.			

The assembly shall show no evidence of cracking or breaking and shall fully recover from indentation in the time required for the assembly to return to 23 +/- 2 °C.

Test Method: Conduct this test with the trim assembly mounted on an actual or simulated production support foundation using the approved retention methods. Drop the rubber ball from the height specified below at the impact locations indicated on the Engineering Drawing.

Drop Height

- . Scuff Plates and Load Floor 610 mm
- . Below belt line 460 mm
- . Above belt line 305 mm

Exception to the above requirements shall be specified on the Engineering Drawing.

(s)	3.3.4	Heat Aging (7 days at 110 +/- 2 °C)			
		Color Change, min (AATCC Evaluation Procedure 1)	Rating 4 - 5		

The cover materials shall show no evidence of tackiness, or exhibit a color tone change. Any "spotty" or non-uniform staining or discoloration shall be cause for rejection.