

Family of products	Shoddy	Spec number	0052
Sub-family (trade mark)		600 GSM Needling Product	Presentation
Application:		Date issue	9/17/2019

Significant Characteristics	Test Method	Unit	Tolerances
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Composition			
Aspect	Apperance	Visual	Blue
	Color		
Fiber Blend	Binding fiber	Low Melt	51mm Low melt 8%
	Other fibers	Fiber Grades	edge trim /blue-17/Tintoria
Facing	Side 1	Type	
	Side 2	Film	

General Characteristics					
Thickness		Thickness Gage	10	9.43	
Basis weight		Weight Scale	51	54	
Mechanical Properties	Tensile Stregnth at break	MD	Instron	Report	27.00
		AMD		Report	162.67
	Elongation at break	MD	Instron	Report	13.78%
		AMD		Report	19.33%
Flammability	Surface	FMVSS 302	Report	41.94mm/min	
Thermal performance	R-Value	ASTM C177 and ASTM C518			

Acoustical Performance							
Test Conditions	70						
20-21 C	HZ	250	500	1000	2000	4000	8000
69-70 % RH	Sound Absorption Coef.						
986 hPa	Test Conducted per SAE J2883 wotj am ASTM E795 Type "A" Mounting						
	Sample A	Sample B		Sample C		Sample D	
PMI (Automotive )							