

3A Test report

Material: NBR 366470

Date

8-8-2018

PHYSICAL PROPERTIES

			3A Requirement				Test result	Class	Remark
			Class I	Class II	Class III	Class IV			
Hardness	Shore A	ASTM D2240-04	70±5	70±5	70±5	70±5	PASS	I	
Tensile Strength	Mpa	ASTM D412-06a	> 8.28	> 7.59	> 6.9	> 3.45	PASS	I	
Elongation	%	ASTM D412-06a	> 100	> 100	> 100	> 75	PASS	I	

IMMERSION TESTS

			3A Requirement				Test result	Class	Remark
			Class I	Class II	Class III	Class IV			
Distilled Water Absorption 22hr @70°C ASTM D471-06									
Hardness Change	Shore A		± 5	± 5	± 10	± 10	PASS	I	
Mass Change	%		± 5	± 10	± 15	± 20	PASS	I	
Volume Change	%		± 5	± 10	± 15	± 25	PASS	I	
Visual Change	Yes / No		No	No	No	No	PASS	I	
Nitric 0.50% Acid Resistance 22hr @82°C ASTM D471-06									
Hardness Change	Shore A		± 5	± 10			PASS	I	
Mass Change	%		± 5	± 15			PASS	II	
Volume Change	%		± 5	± 15			PASS	II	
Visual Change	Yes / No		No	No			PASS	I	
Alkaline Cleaner Resistance 22hr @82°C ASTM D471-06									
Hardness Change	Shore A		± 5	± 10	± 10	± 10	PASS	I	
Mass Change	%		± 5	± 10	± 15	± 20	PASS	I	
Volume Change	%		± 5	± 10	± 15	± 25	PASS	I	
Visual Change	Yes / No		No	No	No	No	PASS	I	
Chlorine Sanitizer Resistance 22hr @23°C ASTM D471-06									
Hardness Change	Shore A		± 5	± 5	± 10	± 10	PASS	I	
Mass Change	%		± 5	± 10	± 15	± 20	PASS	I	
Volume Change	%		± 5	± 10	± 15	± 25	PASS	I	
Visual Change	Yes / No		No	No	No	No	PASS	I	
Milk Fat Absorption 22hr @70°C ASTM D471-06									
Hardness Change	Shore A		± 5	± 5	± 10	± 10	PASS	I	
Mass Change	%		± 5	± 10	± 25	± 40	PASS	I	
Volume Change	%		± 5	± 10	± 25	± 60	PASS	I	
Visual Change	Yes / No		No	No	No	No	PASS	I	

AGEING STABILITY

			3A Requirement				Test result	Class	Remark
			Class I	Class II	Class III	Class IV			
Air Aging Stability 168hr @70°C ASTM D573-04									
Hardness Change	Shore A				± 10	± 10	PASS	III	only applicable for class III / IV
Visual Change	Yes / No				No	No	PASS	III	
Air Aging Stability 168hr @100°C ASTM D573-04									
Hardness Change	Shore A		± 10	± 10			PASS	I	only applicable for class I / II
Visual Change	Yes / No						PASS	I	

RESULT

3A Class II

For low fat tolerance (< 8% milk fat)

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