

Capran® 75

Polyamide 6

Honeywell

Message:

Capran® is a multipurpose cast nylon 6 film used in food packaging and industrial applications. Its physical properties are evenly distributed for optimum performance giving excellent resistance to flex cracking. It can be processed over a wide temperature range and exhibits outstanding abrasion resistance.

General Information			
Features	Low air permeability		
	Radiation disinfection		
	Good disinfection		
	Perforation resistance		
	Impact resistance, good		
	Good cracking resistance		
	Good tear strength		
	Good wear resistance		
	High pressure heating resistance		
Uses	Packaging		
	Films		
	Industrial application		
	Food packaging		
Forms	Films		
Processing Method	Thermoforming		
Mechanical	Nominal Value	Unit	Test Method
Coefficient of Friction			ASTM D1894
With Metal-Dynamic	0.35		ASTM D1894
With self-dynamics	0.85		ASTM D1894
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	19	µm	
secant modulus			ASTM D882
MD : 19 µm	793	MPa	ASTM D882
TD : 14 µm	862	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Yield	37.9	MPa	ASTM D882
TD: Yield	37.9	MPa	ASTM D882
MD: Break, 19 µm	122	MPa	ASTM D882
TD: Break, 19 µm	103	MPa	ASTM D882
Tensile Elongation			ASTM D882

MD: Break, 19 μm	340	%	ASTM D882
TD: Break, 19 μm	380	%	ASTM D882
Elmendorf Tear Strength			ASTM D1922
MD : 19 μm	27	g	ASTM D1922
TD : 19 μm	50	g	ASTM D1922
Oxygen Permeability (25°C, 19 μm , 0% RH)	1.6	$\text{cm}^3 \cdot \text{mm}/\text{m}^2/\text{atm}/24 \text{ hr}$	ASTM D3985
Water Vapor Transmission Rate (19 μm , 38°C, 100% RH)	540	$\text{g} \cdot \text{mm}/\text{m}^2/\text{atm}/24 \text{ hr}$	ASTM F1249
Optical	Nominal Value	Unit	Test Method
Haze	< 10	%	ASTM D1003
Additional Information			

Yield: 32702 in²/lbTensile Strength @ Break, ASTM D 882, MD: 14500 to 20000 psiTensile Strength @ Break, ASTM D 882, TD: 13000 to 17000 psiTensile Strength @ Yield, ASTM D 882, MD: 5000 to 6000 psiTensile Strength @ Yield, ASTM D 882, TD: 5000 to 6000 psiElongation @ Break, ASTM 882, MD: 300 to 375%Elongation @ Break, ASTM 882, TD: 350 to 400%Secant Modulus, ASTM D 882, MD: 90000 to 120000 psiSecant Modulus, ASTM D 882, TD: 100000 to 150000 psiGraves Tear (initial), ASTM D 1004, MD: 630 to750 g/milGraves Tear (initial), ASTM D 1004, TD: 630 to750 g/milCoefficient of Friction, ASTM D 1894: 0.70 to 1.0 vs Itself-DynamicCoefficient of Friction, ASTM D 1894: 0.2 to 0.5 vs Metal-DynamicSurface Tension, ASTM D5946, untreated side: >/= 56 dynes/cmSurface Tension, ASTM D5946, treated side: >50 dynes/cmDimensional Stability, ASTM D1204, MD, 320°F, 5min: <3.0% shrinkageDimensional Stability, ASTM D1204, TD, 320°F, 5min: <3.0% shrinkage

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