

ICORENE® 3901

Metallocene Linear Low Density Polyethylene

ICO Polymers APAC, A Division of A. Schulman

Message:

ICORENE™ 3901 is a metallocene based, linear low density polyethylene featuring high flexibility, toughness and environmental stress crack resistance. An additional key property is the elastic recovery normally associated with polar copolymers such as EBA, EVA or PVC. ICORENE™ 3901 contains a fully formulated UV stabilisation package (with a minimum UV8 rating).

The base resin in ICORENE™ 3901 is suitable for food contact applications. For detailed information on compliance to specific standards please contact your account manager.

ICORENE™ 3901 is available in custom colours on request.

General Information			
Additive	UV Stabilizer		
Features	Excellent Elastic Recovery		
	Food Contact Acceptable		
	Good Flexibility		
	Good Toughness		
	Good UV Resistance		
	High ESCR (Stress Crack Resist.)		
	Low Temperature Impact Resistance		
Uses	Automotive Bumper		
	Nonwovens		
	Water Sports Equipment		
Appearance	Colors Available		
Forms	Powder		
Processing Method	Rotational Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.905	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	4.0	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (100% Igepal, F50)	> 1000	hr	ASTM D1693
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	49		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Elongation ¹ (Break)	> 500	%	ASTM D638
Flexural Modulus	120	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Impact Strength (-40°C, 3.20 mm)	77.0	J	ARM
UV Rating ²	8000	hr	ASTM 2565

Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	83.0	°C	ASTM D1525
NOTE			
1.	500 mm/min		
2.	50% Retained Tensile Elongation		

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