

ICORENE® 9042

Linear Medium Density Polyethylene

ICO Polymers APAC, A Division of A. Schulman

Message:

ICORENE™ 9042 is a linear medium density polyethylene designed specifically for the rotational moulding of tanks and products that require an improved degree of rigidity. It is a user-friendly rigid resin with a wide processing window, and now has enhanced sintering performance providing for potential cycle time reduction while maintaining excellent overall physical properties. ICORENE™ 9042 contains an enhanced formulated UV stabilisation package. The base resin in ICORENE™ 9042 is compliant with Australian food contact requirements (AS2070:1,8) and potable (drinking) water standard AS4020. For compliance of specific colours please contact your account manager.

ICORENE™ 9042 is available in the ICORENE™ Standard colour range, and custom colours on request.

General Information			
Additive	UV Stabilizer		
Features	Fast Molding Cycle		
	Good Chemical Resistance		
	Good Creep Resistance		
	Good Impact Resistance		
	Good UV Resistance		
	High Rigidity		
Uses	Agricultural Tanks		
	Containers		
	Tool/Tote Box		
	Water Sports Equipment		
Agency Ratings	AS 2070		
	AS 4020		
Appearance	Colors Available		
Forms	Powder		
Processing Method	Rotational Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.938	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)	> 500	hr	ASTM D1693
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	65		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	590	MPa	ASTM D638
Tensile Strength ¹ (Yield)	18.0	MPa	ASTM D638

Tensile Elongation ² (Break)	900	%	ASTM D638
Flexural Modulus	775	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Impact Strength ³ (-40°C, 3.20 mm)	63.0	J	ARM
UV Rating ⁴	14000	hr	ASTM 2565
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	120	°C	ASTM D1525
NOTE			
1.	50 mm/min		
2.	50 mm/min		
3.	Impact strength varies with part thickness and moulding conditions. Prototype testing is highly recommended		
4.	50% Retained Tensile Elongation		

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