ICORENE® 9050

Linear Medium Density Polyethylene

ICO Polymers APAC, A Division of A. Schulman

Message:

ICORENE™ 9050 is a linear medium density polyethylene resin that is suitable for the rotational moulding of large tanks and for applications where rigidity and toughness is required. ICORENE™ 9050 contains a fully formulated stabilisation package passing the minimum UV8 requirement of AS/NZS4766:2006.
The ICORENE™ 9050 range of more commonly used Tank Colours is registered as complying with AS/NZS:4766 'Polyethylene Storage Tanks for Water & Chemicals'. This includes Australian food contact requirements (AS2070:1,8) and potable (drinking) water standard AS4020. Details of our registration for compliance with various standards can be obtained by contacting your account manager.
ICORENE™ 9050 can be formulated in custom colours and as a UV20 Ultra UV version on request.

General Information			
Additive	UV Stabilizer		
Features	Good Chemical Resistance Good Creep Resistance Good Flow Good Impact Resistance Good Tear Strength Good UV Resistance		
Uses	Agricultural Applications Marine Applications Septic Tanks Tanks Water Sports Equipment		
Agency Ratings	AS/NZS 4766		
Appearance	Colors Available		
Forms	Powder		
Processing Method	Rotational Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	0.938	g/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	3.2	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (100% Igepal, F50)	> 500	hr	ASTM D1693A
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore D)	65		ASTM D2240
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus [1] (3.20 mm, Compression Molded)	625	MPa	ASTM D638

Tensile Strength [2] (Yield, 3.20 mm, Compression Molded)	18.0	MPa	ASTM D638
Tensile Elongation [3] (Break, 3.20 mm, Injection Molded)	950	%	ASTM D638
Flexural Modulus [4] (3.20 mm, Compression Molded)	775	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Impact Strength [5] (-40°C, 3.20 mm)	65.0	J	ARM
UV Rating [6]	> 8000	hr	ASTM 2565
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	120	°C	ASTM D1525

NOTE	
1.	0.50 mm/min
2.	50 mm/min
3.	50 mm/min
4.	1.3 mm/min
5.	Impact strength varies with part thickness and moulding conditions. Prototype testing is highly recommended
6.	50% Retained Tensile Elongation

Recommended distributors for this material

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