

ICORENE® 9035

Linear Medium Density Polyethylene
ICO Polymers APAC, A Division of A. Schulman

Message:

ICORENE™ 9035 is a linear medium density polyethylene which exhibits a good balance of moulding and mechanical performance. This grade is suited to general purpose industrial parts while offering more rigidity compared with ICORENE™ 9048. ICORENE™ 9035 contains a fully formulated UV stabilisation package (with a minimum UV8 rating).
The base resin in ICORENE™ 9035 is suitable for food contact applications, including conformance to FDA 21CFR177.1520 and EU Commission Directive 202/72/EC. For detailed information on compliance to specific standards please contact your account manager.
ICORENE™ 9035 is available in a range of standard colours or as custom colours on request.

General Information			
Additive	UV Stabilizer		
Features	General Purpose		
	Good Processability		
	Good Surface Finish		
	Good Toughness		
	Good UV Resistance		
	High ESCR (Stress Crack Resist.)		
Uses	Containers		
	Drums		
	Industrial Containers		
	Sporting Goods		
	Tanks		
	Toys		
Appearance	Colors Available		
Forms	Powder		
Processing Method	Rotational Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.935	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	5.0	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (100% Igepal)	> 300	hr	ASTM D1693
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	55		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield)	17.0	MPa	ASTM D638
Tensile Elongation ² (Break)	> 700	%	ASTM D638
Flexural Modulus	720	MPa	ASTM D790

Impact	Nominal Value	Unit	Test Method
Impact Strength ³	54	J	ARM
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	115	°C	ASTM D1525
Additional Information	Nominal Value	Unit	Test Method
UV Rating ⁴	8000	hr	ASTM 2565
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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