

# ICORENE® 5045 SL

High Density Polyethylene

A. Schulman Europe

Message:

ICORENE® 5045 SL is a superlinear high density polyethylene specifically developed for use in rotational moulding.It is designed for high rigidity parts and present a good gloss finish with moulds with glossy, chrome, or nickel finishes.  
ICORENE® 5045 SL is particularly suitable for the production of multilayer boat. It has very high stiffness, good toughness and scratch resistance combined with good processability.

General Information			
Additive	UV stabilizer		
Features	Ultra high toughness		
	Super rigidity		
	High scratch resistance		
	Good UV resistance		
	Workability, good		
Uses	Water Sports Equipment		
Appearance	Unspecified Color		
	Natural color		
Forms	Powder		
Processing Method	rotomolding		
Physical	Nominal Value	Unit	Test Method
Density	0.950	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	5.5	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	63		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	27.0	MPa	ASTM D638
Tensile Elongation (Yield)	20	%	ASTM D638
Flexural Modulus	1130	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Drop Impact Resistance <sup>1</sup> (-20°C)	20.0	J/cm	Internal method
NOTE			

1. Based on ISO 6603

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