

Technical Data Sheet

Icorene 3550-35G

Linear Low Density Polyethylene

Product Description

Icorene 3550 is a linear low density polyethylene for rotational molding applications. The grade is UV stabilized and suitable for applications requiring good stiffness and processability.

Processing Method	Rotomolding
Forms	Powder
Appearance	Natural Color
Additive	UV Stabilizer
Application	Agricultural Tanks; General Purpose; Outdoor Applications; Pallets; Septic Tanks; Toys

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (190 °C/2.16 kg)	4.5 to 5.5	g/10 min	ASTM D1238
Density, (Natural)	0.932 to 0.937	g/cm ³	ASTM D1505
Mechanical			
Tensile Strength at Yield, (51 mm/min, Rotational Molded)	17.9	MPa	ASTM D638
Environmental Stress Crack Resistance			
(Condition A, F50, 10% Igepal)	100	hr	ASTM D1693
(Condition A, F50, 100% Igepal)	>1000	hr	ASTM D1693
Flexural Modulus, (Rotational Molded, 1% Secant)	702	MPa	ASTM D790
Tensile Elongation at Break, (51 mm/min, Rotational Molded)	500	%	ASTM D638
Impact			
Impact Strength			
(-40 °C, 3.18 mm, Rotational Molded)	75	J	ARM
(-40 °C, 6.35 mm, Rotational Molded)	>258	J	ARM
Thermal			
Deflection Temperature Under Load Unannealed (264 psi)	38.9	°C	ASTM D648
Deflection Temperature Under Load Unannealed (66 psi), (Rotational Molded)	58.0	°C	ASTM D648