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Technical Data Sheet

Icorene 3570-8418G 123 DEWALT YEW



Linear Low Density Polyethylene

Product Description

Icorene 3570 is a linear low density polyethylene for rotational molding applications such as high end coolers, toys, playgrounds, tanks, etc. The grade is UV stabilized and suitable for applications requiring good stiffness and processability. Very good mold surface finish.

Processing Method Rotomolding

Attribute Good Toughness; UV Resistant

Forms Powder

Appearance Colors Available

Additive UV Stabilizer

Application General Purpose; Outdoor Applications; Sporting Goods

	Nominal		
Typical Properties	Value	Units	Test Method
Physical			
Melt Flow Rate, (190 °C/2.16 kg)	6.8	g/10 min	ASTM D1238
Density	0.935	g/cm³	ASTM D1505
Mechanical			
Tensile Strength at Yield, (50 mm/min)	18.3	MPa	ASTM D638
Environmental Stress Crack Resistance			
(Condition A, F50, 100% Igepal)	>1000	hr	ASTM D1693
(F50, 10% Igepal)	50.0	hr	ASTM D1693
Flexural Modulus, (1.3 mm/min, 1% Secant)	696	MPa	ASTM D790
Impact			
Impact Strength			
(-40 °C, 3.18 mm, Rotational Molded)	68	J	ARM
(-40 °C, 6.35 mm, Rotational Molded)	258	J	ARM
Thermal			
Deflection Temperature Under Load Unannealed (264 psi), (0.125 mm, Rotational Molded)	38.6	°C	ASTM D648
Deflection Temperature Under Load Unannealed (66 psi)	57.2	°C	ASTM D648