Technical Data Sheet

Icorene 1460 BUE 5123

Polyethylene Copolymer, Linear

Product Description

Icorene 1460 is a UV stabilised hexene linear medium density polyethylene specifically developed for use in rotational moulding.This grade is popular for use in agriculture and chemical storage containers, technical parts and automotive parts. Additionally, this grade is particularly resistant against the harmful effect of biodiesel fuel.*Icorene* 1460 has good overall mouldability, extremely high ESCR and impact strength (especially at low temperatures).It is not intended for use in medical and pharmaceutical applications.

Processing Method	Rotomolding
Attribute	Good Moldability; Good Toughness; High ESCR (Environmental Stress Cracking Resistance); Low Temperature Impact Resistance; UV Resistant
Forms	Powder
Appearance	Natural Color; Unspecified Color
Additive	Antioxidant; UV Stabilizer
Application	Automotive Exterior Parts; General Purpose; Industrial Containers

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (190 °C/2.16 kg)	7.5	g/10 min	ISO 1133
Density	0.936	g/cm³	ISO 1183
Mechanical			
Tensile Strength at Yield	17.0	MPa	ISO 527-1
Environmental Stress Crack Resistance			
(Condition B, F50, 10% Igepal, 50 °C)	>5000	hr	ASTM D1693
(Condition B, F50, 100% Igepal, 50 °C)	>10000	hr	ASTM D1693
Tensile Strain at Break	>650	%	ISO 527-1
Tensile Strain at Yield	10	%	ISO 527-1
Tensile Modulus	700	MPa	ISO 527
Impact			
Impact Strength, (-40 °C, 3.20 mm, Rotational Molded)	>75	J	ARM
Tensile Impact Strength			
(Method A, -30 °C)	104	kJ/m²	ISO 8256
(Method A, 23 °C)	213	kJ/m²	ISO 8256
Hardness			
Shore Hardness, (Shore D, Rotational Molded)	56		ISO 868
Thermal			
Vicat Softening Temperature, (A (10N), 50 °C/h)	113	°C	ISO 306