Technical Data Sheet

Icorene 1210 BUE 5748

Linear Low Density Polyethylene

Product Description

Icorene 1210 is a hexene linear low density polyethylene specifically developed for use in rotational moulding.This grade is designed for applications requiring toughness and flexibility and is suitable for use in many applications such as marine buoys, street furniture, or intermediate bulk containers (IBCs).

Processing Method	Rotomolding
Attribute	Good Processability; Good Stiffness; Good Toughness; High Flow; UV Resistant
Forms	Powder
Appearance	Natural Color; Unspecified Color
Additive	UV Stabilizer
Application	Containers; General Purpose; Industrial Containers

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (190 °C/2.16 kg)	3.3	g/10 min	ASTM D1238
Density	0.926	g/cm³	ASTM D1505
Mechanical			
Tensile Strength at Yield	14.0	MPa	ISO 527
Environmental Stress Crack Resistance, (10% Igepal, 50 °C)	>1000	hr	ASTM D1693
Flexural Modulus, (23 °C)	500	MPa	ISO 178
Tensile Elongation at Break	>1300	%	ASTM D638
Impact			
Drop Impact Resistance, (-20 °C, Internal Method)	>200	J/cm	ASTM D4226
Hardness			
Shore Hardness, (Shore D)	52		ISO 868
Thermal			
Vicat Softening Temperature, (A (10N))	107	°C	ISO 306
Deflection Temperature Under Load Annealed (0.45 MPa)	54	°C	ISO 75-2/B
Melting Temperature	125	°C	ASTM D2117