

EL-Lene™ H5211PBL

High Density Polyethylene

SCG Chemicals Co., Ltd.

Message:

EL-Lene H5211PBL is a blue, bimodal technology, high density polyethylene compound that is specially designed for striping. EL-Lene H5211PBL consists of high UV stabilizer and anti-oxidant which are well dispersed and provides outstanding UV resistance and high thermal stability for long term using.

General Information			
Additive	Antioxidation UV stabilizer		
Features	High strength Antioxidation Good UV resistance Workability, good Thermal stability, good		
Uses	Piping system		
Appearance	Blue		
Forms	Particle		
Processing Method	Pipeline extrusion molding Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.956	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/5.0 kg)	0.44	g/10 min	ISO 1133
Environmental Stress-Cracking Resistance (25% Igepal, F0)	> 10000	hr	ASTM D1693
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	64		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			ISO 527-2/100
Yield	25.0	MPa	ISO 527-2/100
Fracture	35.0	MPa	ISO 527-2/100
Tensile Strain (Break)	860	%	ISO 527-2/100
Flexural Modulus	980	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	170	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -60.0	°C	ASTM D746
Additional Information			

Oxidative induction time, ISO/TR10837, 200°C: >50 min

Extrusion	Nominal Value	Unit
Melt Temperature	180 - 200	°C

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