

# RELENE® C 31101

High Density Polyethylene

Reliance Industries Limited

## Message:

Relene C 31101 is a black high density polyethylene compound for coating of metal pipes. It contains minimum 2% well dispersed, fine particle size carbon black in order to ensure excellent weathering resistance. Relene C 31101 offers excellent processability and adhesion characteristics.

General Information			
Additive	Carbon black (2%)		
Features	Good adhesion		
	Good weather resistance		
Uses	Pipeline coating		
Appearance	Black		
Forms	Particle		
Processing Method	Extrusion coating		
Physical	Nominal Value	Unit	Test Method
Density	0.953	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.27	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (Compression Molded, F50)	400	hr	ASTM D1693
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, Compression Molded)	65		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield, molding	22.0	MPa	ASTM D638
Fracture, molding	27.0	MPa	ASTM D638
Tensile Elongation (Break, Compression Molded)	800	%	ASTM D638
Flexural Modulus (Compression Molded)	730	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-75.0	°C	ASTM D746
Vicat Softening Temperature	122	°C	ASTM D1525
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+16	ohms · cm	ASTM D257
Dielectric Strength	30	kV/mm	ASTM D149
Dielectric Constant	2.40		ASTM D150
Dissipation Factor	5.0E-4		ASTM D150
Additional Information			
Oxidation Induction Time, ASTM D3895: >65 min			

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