

# RELENE® W 43006

High Density Polyethylene  
Reliance Industries Limited

Message:

Relene W 43006 is a natural polyethylene grade recommended for insulation in jelly filled telecommunications cables. This grade contains a special stabilisation system for improved thermal resistance. It is designed to provide excellent processability for high speed wire insulating extrusion process, resistance to petroleum jelly absorption, environmental stress crack resistance and desired electrical insulation properties.

General Information			
Additive	heat stabilizer		
Features	High ESCR (Stress Cracking Resistance)		
	Workability, good		
	Thermal Stability		
Uses	Communication Cable Jacketing		
	Wire and cable applications		
Agency Ratings	ASTM D 1248, III, Class A, Cat. 4		
Appearance	Natural color		
Forms	Particle		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.943	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.60	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (Molding, F0)	500	hr	ASTM D1693B
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield, Compression Molded)	18.5	MPa	ASTM D638
Tensile Elongation (Break, Compression Molded)	480	%	ASTM D638
Flexural Modulus (Compression Molded)	600	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	118	°C	ASTM D1525
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+16	ohms · cm	ASTM D257
Dielectric Constant	2.60		ASTM D150
Dissipation Factor	4.0E-5		ASTM D150
Additional Information			
Oxidation Induction Time, ASTM D3895: >70 min			

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