

RELENE® S42005

High Density Polyethylene

Reliance Industries Limited

Message:

S42005 is a natural polyethylene grade recommended as a base resin for sheathing/jacketing in jelly filled telecommunications cables. It is designed to provide excellent processing characteristics and formulated to offer superior physical/electrical insulation properties including good environmental stress crack resistance.

General Information	
Features	Food Contact Acceptable
	Good Processability
	High ESCR (Stress Crack Resist.)
Uses	Cable Jacketing
	Wire & Cable Applications
Agency Ratings	FDA 21 CFR 177.1520
	IS 10141-1982
	IS 10146-1982

Physical	Nominal Value	Unit	Test Method
Density	0.942	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.55	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (Injection Molded, F0)	> 500	hr	ASTM D1693B
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield, Injection Molded)	20.0	MPa	ASTM D638
Tensile Elongation (Break, Injection Molded)	500	%	ASTM D638
Flexural Modulus (Injection Molded)	600	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	118	°C	ASTM D1525

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

