



S42005

POLYETHYLENE

FOR WIRE & CABLE GRADE

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.

Physical Characteristics*			
Property	Test Method	Unit	Typical Value**
Density (23°C)	ASTM D1505	g/cc	0.946
Melt Flow Index (190°C/2.16 kg)	ASTM D1238	g/10 min	0.55
Tensile Strength at Yield	ASTM D638	MPa	20.0
Elongation at Break	ASTM D638	%	500
Flexural Modulus	ASTM D790	MPa	600
ESCR, F ₅₀	ASTM D1693/B	hr	> 500
Softening Point	ASTM D1525	°C	118

*Typical Characteristics and not to be taken as specifications

**Mechanical Properties are on Injection Moulded Specimen

Applications

Base resin - Sheathing/jacketing of PLF cables and jacketing of optical fibre cables.

Regulatory Information

- Meets the requirements stipulated in standard IS: 10146-1982 on "Specification for Polyethylene for safe use in contact with foodstuffs, pharmaceuticals, and drinking water". It also conforms to the positive list of constituents as prescribed in IS: 10141-1982. The grade and the additives incorporated in it also comply with the FDA:CFR Title 21,177.1520, Olefin polymers.

Storage Recommendations

- Bags should be stored in dry/closed conditions at temperatures below 50°C and protected from UV/ direct sunlight.

Reliance Industries Limited, Product - Application & Technology Group, PRTC,
Svastik Mill Compound, V. N. Purav Marg, Chembur, Mumbai-400 071. Tel.: + 91-22-6767 7000. E-mail: polymer_patsupport@ril.com Website: www.ril.com

The information and data presented herein is true and accurate to the best of our knowledge. No warranty or guarantee expressed or implied, is made regarding performance or otherwise. This information and data may not be considered as a suggestion to use our products without taking into account existing patents, or legal provisions or regulations, whether national or international. The user of any information and/or data is advised to obtain the latest details from any of the offices of the company or its authorised agents, as the information and/or data is subject to change based on the research and development work undertaken by the company.

Updated as of August, 2015