



S46005

HIGH DENSITY POLYETHYLENE HDPE SHEATHING GRADE

S46005 is a High Density Polyethylene grade suitable for sheathing/jacketing of optical fiber cables. This resin offers good mechanical properties and surface appearance during extrusion.

TYPICAL CHARACTERISTICS*

PROPERTY	TEST METHOD	UNIT	TYPICAL VALUE
Density (23°C)	ASTM D 1505	g/cc	0.948
Melt Flow Index (190°C / 2.16 Kg)	ASTMD 1238	g/10 min.	0.50
Tensile Strength at Yield	ASTMD 638	MPa	22
Elongation at Break	ASTMD 638	%	>400
Flexural Modulus	ASTM D 790	MPa	>800
Oxidative Induction Time	ASTM D 3895	min	>40
ESCR (F ₅₀ @50°C, 100 % Igepal Soln)	ASTM D 1693	Hrs	>300
Electrical Properties			
DC Volume Resistivity	ASTM D 257	ohm-cm	10 ¹⁶

* Typical characteristics and not to be taken as specifications

** Typical properties measured on compression molded specimen

APPLICATIONS:

Base resin – Sheathing/jacketing of optical fiber cables.

S46005 is not intended for use in medical and pharmaceutical applications.

Regulatory Information

- For any regulatory compliance declaration please contact RIL representative.
- S46005 is not intended for use in medical and pharmaceutical applications.

Storage Recommendations

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

Reliance Industries Limited,