



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)	ASTM D 1238	g/10 min.	0.50
Tensile Strength at Yield	ASTM D 638	MPa	22
Elongation at Break	ASTM D 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.

DISCLAIMER

The information contained herein may include typical properties and processing parameters of the grade or its typical performances when used in respective applications. The values given above are based on analysis of representative samples and not the actual product supplied. It is the customer's responsibility to inspect and test our grades in order to satisfy itself as to the suitability of the products for customers' particular application. The customer is solely responsible for all determinations regarding any use of material or product and any process in its area of interest. RIL assumes no obligation or liability for any loss, damage or injury directly or indirectly suffered or incurred as a result of using any of the information or product given in this document. 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 authorized agents, as the information and/or data is subject to change based on the research and development work undertaken by the company.