



GAIL (India) Ltd.
(A Govt. of India Undertaking)
Petrochemicals Marketing Division

C43D006

High Density Polyethylene for Wire and cable Extrusion

Application: C43D006 is recommended as a base resin for insulation compound for PIJF cables (Jelly filled cable). It conforms to TEC specification no. GR/CUG-01/03 Aug 2003. It has excellent processability with good electrical insulation properties. It offers excellent thermal stability and good ESCR.

Property	Values*	Unit	Test Method
Melt Flow Index (I ₂)	0.7	gm/10min	ASTM D1238
Density	0.947	gm/cc	ASTM D1505
Tensile Strength @ yield	190	kg/cm ²	ASTM D 638
Elongation @ break	14	%	ASTM D 638
Tensile strength@ break	>100	kg/cm ²	ASTM D 638
Elongation @ break	> 300	%	ASTM D 638
Flexural modulus	7000	kg/cm ²	ASTM D790
Vicat softening point	117	^o C	ASTM D1525
ESCR, F ₅₀	>48	hrs	ASTM D1693/B
OIT (Oxidation Induction time)	>70	min	ASTM D3895
Volume resistivity	1.3 x 10 ¹⁷	ohm-cm	ASTM D 257
Dielectric constant	1.9	-	ASTM D 150
Dissipation factor	7 x 10 ⁻⁵	-	ASTM D 150

* Typical characteristics of the product given purely as a guide. Mechanical properties were determined on compression molded samples.

Processing Guidelines:

Barrel temperature: 170 - 210°C

Regulatory Information:

Certificate is available on request.

Packaging & Storage:

C43D006 is available in natural colour/pellet form in 25 kg strong bags made of woven fabric. The product should be stored in dry conditions at temperature below 50°C and protected from UV light.

For any technical assistance contact:

GAIL Polymer Technology Centre

B-35/36, Sector-1, Noida, UP-201301, Tel: +91-0120-2549155/156, 2549310; Fax: 011-26185941

Website: www.gailonline.com

The information, data and suggestions contained herein are to the best of our knowledge accurate and reliable. It is the ultimate responsibility of the user to ensure that the product is suited and the information is applicable to the user specific application.

Revised in Apr'2008