

DATASHEET

ASTM Property



Grade	5305E
Product	HDPE

General Information

Key Features

5305E is a high molecular weight, high density polyethylene insulation compound especially designed for high-speed wire insulating extrusion process. It provides excellent processability, environmental and thermal stress cracking resistance.

Applications

Solid insulation of telecom wire, etc.

Item	Measuring Method	Unit	Value
Physical			
Melt Flow Index	ASTM D1238	g/10min	0.8
Density	ASTM D1505	g/cm ³	0.952
Mechanical			
Tensile Stress (Yield)	ASTM D638	kgf/cm ²	230
Tensile Strain (Break)	ASTM D638	%	≥800
Thermal			
Oxidation Induction Time (200°C)	ISO/TR 10837	min	> 50
Electrical			
Dielectric constant	ASTM D150	-	< 2.3
Dissipation factor	ASTM D150	-	0.0001
Volume resistance	ASTM D257	Ω·cm	> 1 X 10 ¹⁷
Dielectric strength	ASTM D149	kV/mm	> 20
Additional Properties			
ESCR	ASTM D1693	F50hr	> 2,000

1. Physical Properties : these are not to be construed as specifications
2. ISO 9001, 14001, /TS 16949

* The last update date : 2021/10/01