

<b>Grade</b>	5305E
<b>Product</b>	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
<b>Physical</b>			
Melt Flow Index	ASTM D1238	g/10min	0.8
Density	ASTM D1505	g/cm <sup>3</sup>	0.952
<b>Mechanical</b>			
Tensile Stress (Yield)	ASTM D638	kgf/cm <sup>2</sup>	230
Tensile Strain (Break)	ASTM D638	%	≥800
<b>Thermal</b>			
Oxidation Induction Time (200°C)	ISO/TR 10837	min	> 50
<b>Electrical</b>			
Dielectric constant	ASTM D150	-	< 2.3
Dissipation factor	ASTM D150	-	0.0001
Volume resistance	ASTM D257	Ω·cm	> 1 X 10 <sup>17</sup>
Dielectric strength	ASTM D149	kV/mm	> 20
<b>Additional Properties</b>			
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