Technical Data Sheet

Petrothene GX 5125

High Density Polyethylene

Product Description

Petrothene GX 5125 is a multi-modal, broad molecular weight HDPE-based compound designed for use in the sheathing of Drop Cables (FTTH). *Petrothene* GX 5215 contains a robust additive package for thermal stabilisation, carbon black for UV protection, and additional components to enhance adhesion.
The material enables cables to meet the requirements of IEC 60794-1.

Status	Developmental
Availability	Africa-Middle East; Asia-Pacific; Europe
Application	Wire & Cable
Market	Industrial, Building & Construction; Wire & Cable
Attribute	Excellent ESCR (Environmental Stress Cracking Resistance); Good Electrical Properties; Good Thermal Stability; Good UV Resistance; High Density; High Elongation

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate			
(190 °C/2.16 kg)	0.3	g/10 min	ISO 1133-1
(190 °C/5.0 kg)	1.1	g/10 min	ISO 1133-1
Density	0.956	g/cm³	ISO 1183-1
Mechanical			
Tensile Modulus	990	MPa	ISO 527-1, -2
Tensile Stress at Break	20	MPa	ISO 527-1, -2
Tensile Stress at Yield	23	MPa	ISO 527-1, -2
Tensile Elongation at Break	480	%	ISO 527-1, -2
FNCT, (6.0 MPa, 6.6% Dehyton PL, 50 °C)	> 1000	hr	ISO 16770
Thermal			
Oxidation Induction Time, (210 °C)	> 50	min	ISO 11357-6
Peak Melting Point	130	°C	ISO 11357

Manufacturer website: https://www.lyondellbasell.com/en/