GEZSAN PLASTİK
Sanayi Ticaret Limited Şirketi

TECHNICAL DATA SHEET

Product Name	**GEZSAN - HDPE**
Commercial Grade	**GEZ-018**

Commercial Name: **GEZ-018 HDPE Black** (100% Post-Industrial Recycled Compound)

Description: GEZ-018 HDPE is a high-density polyethylene compound formulated with high-purity PIR feedstock, UV-stabilizing carbon black, and antioxidant packages (available in various color options upon request).

Application: Specifically designed for outer-layer extrusion in multilayer/spiral pipe systems, steel pipe coating (3LPE), film extrusion, and industrial blow molding applications.

Physical & Thermal Properties

Property	Typical Value	Reference Test Method
Density (Compound)	0.945 – 0.955 g/cm³	ISO 1183-1, Method A
Melt Flow Rate (190°C / 2.16 kg)	0.35 – 0.45 g/10 min	ISO 1133-1, Method B
Melt Flow Rate (190°C / 5.0 kg)	1.30 – 1.90 g/10 min	ISO 1133-1, Method B
Oxidation Induction Time (OIT @ 200°C)	**> 30 min**	**ISO 11357-6**
Elongation at Break (50 mm/min, 23°C)	≥ 600 %	ISO 527-2
Tensile Strength at Yield (50 mm/min, 23°C)	15 MPa	ISO 527-2
Carbon Black Content	> 2.0 % (No Mineral Fillers)	ISO 6964
Carbon Black Dispersion	< 3 Grade	ISO 18553
Hardness, Shore D	≥ 60	ISO 868
Moisture Content	< 500 ppm	ISO 62

Recommended Processing Conditions

Barrel (Cylinder) Zones	180°C – 240°C	**Die Zones**	210°C – 240°C
Screen / Connector Zones	210°C – 240°C	**Melt Temperature**	210°C – 240°C

* GEZ-018 HDPE is suitable for processing via flat-head die and pipe extrusion lines. Parameters should be optimized according to specific equipment and application requirements.

Quality Standards, Packaging & Storage

Certifications & Compliance: Manufactured under TÜV Austria certified ISO 9001, ISO 14001, and ISO 45001 management systems. EU REACH/CLP compliant. Eligible for EUR.1 / ATR certificate (0% EU customs duty).
Standard Packaging: 1,200 – 1,300 kg big bags on heat-treated pallets (24 MT per 40'HC container).
Storage & Shelf Life: Store in dry, shaded areas away from direct sunlight below 50°C. Shelf life is 6 months from production date. Measure moisture prior to processing if stored for extended periods.

Legal Disclaimer: All information provided in this document is based on GEZSAN PLASTİK's best knowledge and in-house laboratory test data at the time of publication. It serves as general technical guidance and does not constitute a legal warranty or guarantee for specific applications. Intended for industrial use only; not suitable for food, medical, or pharmaceutical contact.

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