GEZSAN PLASTİK
Sanayi Ticaret Limited Şirketi

TECHNICAL DATA SHEET

Product Name	**GEZSAN - LDPE**
Commercial Grade	**GEZ-017**

Commercial Name: **GEZ-017 LDPE Black** (100% Post-Industrial Recycled Compound)

Description: GEZ-017 LDPE (Low-Density Polyethylene) compound offers high flexibility, excellent impact resistance, thermal oxidative stability, and outstanding processability.

Application: Designed for outer-layer applications in multilayer pipe systems, steel pipe coating, and heavy-duty film extrusion.

Physical & Thermal Properties

Property	Typical Value	Reference Test Method
Density (Compound)	0.920 – 0.930 g/cm³	ISO 1183
Melt Flow Rate (190°C / 2.16 kg)	0.30 g/10 min	ISO 1133
Oxidation Induction Time (OIT @ 200°C)	**> 30 min**	**ISO 11357-6**
Tensile Strength at Break (50 mm/min, 23°C)	≥ 12 MPa	ISO 527
Tensile Strength at Yield (50 mm/min, 23°C)	8 – 10 MPa	ISO 527
Carbon Black Content	> 2.0 % (No Mineral Fillers)	ISO 6964
Carbon Black Dispersion	≤ 3 Grade	ISO 11420
Hardness, Shore D	< 53	ISO 868
Moisture Content	< 500 ppm	ISO 62

Recommended Processing Conditions

Typical Zone Temperatures	160°C – 220°C	**Die Head Temperature**	210°C – 240°C
Melt Temperature	210°C – 240°C	**Typical Blow-Up Ratio (BUR)**	2:1 – 3:1

* Temperatures should be optimized according to extruder type, die design, and production speed. Ensure the material is completely dry before processing.

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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