WORLD CONTINENTAL IMPEX

Technical Data Sheet **WCI HDPE EX5**

Product Description

WCI HDPE EX5 is a high-density polyethylene (HDPE) resin designed to deliver a balanced combination of mechanical performance and processability. With a density of 0.949 g/cm^3 and a melt flow profile of 0.28 g/10 min (190°C/5 kg) and 8 g/10 min (190°C/21.6 kg), this grade provides a versatile balance between stiffness, toughness, and ease of processing.

The resin exhibits excellent processability in both film extrusion and sheet production, allowing manufacturers to achieve consistent output with high productivity. Its good stiffness and high tensile strength contribute to improved load-bearing capability, while its strong tear resistance and elongation properties ensure durability in end-use applications.

Typical Applications

- Film Extrusion: Production of high-quality films with consistent thickness, reliable mechanical performance, and enhanced toughness.
- Packaging Films: Counter bags, carrier bags, grocery sacks, wrapping films, and other packaging solutions requiring a balance of stiffness, strength, and flexibility.
- Industrial Films & Sheets: Heavy-duty applications where durability, puncture resistance, and long service life are critical.
- General Purpose Extrusion: Versatile use in sheet extrusion and thermoforming where both mechanical strength and optical balance are required.

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Technical Specification

Property	Value	Units	Test Method
Mass Density (23°C)	0.949	g/cm^3	ISO 1183
Melt Flow Rate (190°C / 5.0kg)	0.28	g/10 min	ISO 1133
Melt Flow Rate (190°C / 21.16kg)	8	g/10 min	ISO 1133
FRR (21.6/5)	29	-	-
FN (Flexural Number)	≤3 / ≤120	-	MPC-TEST
Stress at Yield	24	MPa	ISO 527
Max. Tensile Strength MD/TD	45 / 40	MPa	ISO 527
Stress at Break	35	MPa	ISO 527
Tear Strength MD/TD	200 / 450	mN	ISO 6383-2
Max. Elongation MD/TD	400 / 450	%	ISO 527

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