Technical Data Sheet

Lupolen 5361Z XTRA

High Density Polyethylene

Product Description

Lupolen 5361Z XTRA is a high molecular weight high density polyethylene (HDPE) resin used in blow molding applications from 5L up to 220L. Typical customer applications include Industrial Packaging as Drums and Jerrycans but as well other rigid packagings and Floats. It exhibits good rigidity, good flowability and organoleptic properties and requires less energy in processing. *Lupolen* 5361Z XTRA is delivered in pellet form, contains antioxidants and has a broad molecular weight distribution. *Lupolen* 5361Z XTRA is not intended for use in highly regulated medical and pharmaceutical applications but is recommended for UN-approved dangerous goods packagings.

Status	Commercial: Active
Availability	Africa-Middle East; Asia-Pacific; Australia and New Zealand; Europe; North America; South & Central America
Application	Agricultural; Agricultural Tanks; Bottles; Bottles for Industrial Use; Drums; Food Containers; Food Packaging; General Purpose; Heating Oil Tanks; Industrial; Industrial Applications; Industrial Containers; Industrial Packaging; Jerry Cans; Non-fuel Reservoirs; Non-specific Food Applications; Outdoor Applications; Packaging; Sanitary Products; Tanks; Tanks, Industrial; Toys; Water Sports Equipment
Market	Agriculture; Building & construction; Consumer goods & lifestyle; Industrial; Industrial Packaging; Industrial, Building & Construction; Infrastructure; Outdoor Equipment; Rigid Packaging; Transportation
Processing Method	Blow Molding; Extrusion; Extrusion Blow Molding; Profile Extrusion; Sheet Extrusion
Attribute	Antioxidant; Biodiesel durability; Broad Molecular Weight Distribution; Crack Resistant; Durable; Excellent Processability; Food Contact Acceptable; Fuel Resistant; Fuel Resistant; General Purpose; Good Chemical Resistance; Good Colorability; Good ESCR (Environmental Stress Cracking Resistance); Good Impact Resistance; Good Melt Strength; Good Organoleptic Properties; Good Processing Stability; Good Stiffness; High Density; High ESCR (Environmental Stress Cracking Resistance); High Impact Resistance; High Rigidity; High Viscosity; Low Gel; Machinable; PFAS free formulation; Recyclable Material

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (230 °C/21.6 kg)	4,5	g/10 min	ISO 1133
Density	0,953	g/cm³	ISO 1183
Bulk Density	450	g/L	ISO 60
Mechanical			
Tensile Modulus	1100	MPa	ISO 527-1, -2
Tensile Stress at Yield	27	MPa	ISO 527-1, -2
Tensile Strain at Yield	9	%	ISO 527-1, -2
FNCT			
(6.0 MPa, 6.6% Dehyton PL, 50 °C)	45	hr	ISO 16770
(4.0 MPa, 6.6% Dehyton PL, 80 °C)	3,0	hr	ISO 16770
Impact			
Tensile Impact Strength, (Method A, -30 °C)	170	kJ/m²	ISO 8256

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

Thermal			
Oxidation Induction Time, (200 °C)	85	min	ISO 11357-6
Melting Temperature	132	°C	ISO 11357-3
Processing Parameters			
Extrusion Temperature	180-220	°C	