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LORESTAN PETROCHEMICAL COMPANY

HIGH DENSITY POLYETHYLENE HD52B18

HD52B18 is a medium-density high-density polyethylene (HDPE) grade optimized for injection molding, featuring enhanced properties due to the inclusion of butene-1 (C4) comonomer and various additives for improved processing, rigidity, and environmental resistance.

Producer	Characteristic Properties	Applications	Additive
LORESTAN	Comonomer Butene-1 (C4) Easy Processing High Strength	General Purpose Thin Walled Foam Containers	Acid Scavenger Antioxidants - Lubricants UV Stabilizer

Typical Properties

Resin Properties	Unit	Typical Value	Test Method
Melt Flow Rate (MFR)	g/10 min	15-21	ASTM D1238-10
Density	g/cm ³	0.950-0.954	ASTM D1505-10
Bulk Density	g/cm ³	0.60-0.63	-
Yellowness Index	-	< 30	ASTM D1238
Flexural Modulus @ 5%	MPa	1200	ASTM D790-10
Tensile Stress @ Yield	MPa	28	ASTM D882-10
Tensile Stress @ Break	MPa	14	ASTM D882-10
Elongation @ Break	%	400	ASTM D882-10
Vicat	%	131	ASTM D882-10
IZOD Impact Resistance	J/m	40	ASTM D256-02
Ti Content	ppm wt	<5	MTM15636