



Histif 5431 Z

Polyethylene, High Density

Product Description

Histif 5431 Z is a high density polyethylene with an excellent combination of stiffness and ESCR and a high impact resistance. It is delivered in pellet form and contains antioxidants. Typical customer applications include L-ring drums for the packaging of dangerous goods. **Histif 5431 Z** is not intended for use in medical and pharmaceutical applications.

Product Characteristics

Status	Commercial: Active
Test Method used	ISO
Availability	Europe, North America, Asia-Pacific, Australia/NZ, Africa-Middle East, Latin America
Processing Methods	Extrusion Blow Molding
Features	Antioxidant, High ESCR (Environmental Stress Cracking Resistance), High Impact Resistance , High Rigidity
Typical Customer Applications	Blow Moulding Applications, Drums

Typical Properties	Method	Value	Unit
Physical			
Density	ISO 1183	0.954	g/cm ³
Melt flow rate (MFR) (190°C/21.6kg g/10 min)	ISO 1133	2.6	g/10 min
Bulk density	ISO 60	>0.500	g/cm ³
Mechanical			
Tensile Modulus	ISO 527-1, -2	1200	MPa
Tensile Stress at Yield	ISO 527-1, -2	27	MPa
Tensile Strain at Yield	ISO 527-1, -2	8	%
Tensile Impact Strength	ISO 8256	290.0	kJ/m ²
<i>Note: notched, type 1, method A, -30°C</i>			
Impact			
Charpy notched impact strength (-30 °C, Type 1, Notch A)	ISO 179	80.0	kJ/m ²

Additional Properties

Viscosity number (ISO 1628-3): 500 ml/g
ESCR (FNCT 3.5 MPa / 80°C, 2% Arkopal N100)(ISO 16770): 14 h

Processing Temperature Range: 180 - 220 °C

Notes

Typical properties; not to be construed as specifications.