

Technical Data Sheet

*Histif*5431 Z



High Density Polyethylene

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.

Application	Drums; Industrial Packaging
Market	Industrial Packaging
Processing Method	Extrusion Blow Molding
Attribute	Antioxidant; High ESCR (Environmental Stress Cracking Resistance); High Impact Resistance; High Rigidity

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (190 °C/21.6 kg)	2.6	g/10 min	ISO 1133-1
Density	0.954	g/cm ³	ISO 1183-1
Bulk Density	>0.500	g/cm ³	ISO 60
Viscosity Number	500	ml/g	ISO 1628-3
Mechanical			
Tensile Modulus	1200	MPa	ISO 527-1, -2
Tensile Stress at Yield	27	MPa	ISO 527-1, -2
Tensile Strain at Yield	8	%	ISO 527-1, -2
FNCT, (6.0 MPa, 2% Arkopal N100, 50 °C)	35	hr	ISO 16770
Impact			
Charpy Impact Strength - Notched, (-30 °C, Type 1, Edgewise, Notch A)	80	kJ/m ²	ISO 179
Tensile Impact Strength	290	kJ/m ²	ISO 8256
Note: notched, type 1, method A, -30 °C			
Processing Parameters			
Melt Temperature	180 - 220	°C	