

Technical Data Sheet

***Lufflexen* hyPE 35P FA**

Linear Low Density Polyethylene

Product Description

Lufflexen hyPE 35P FA is a high performance, linear polyethylene grade with medium density and hexene as comonomer. This product combines outstanding impact resistance with an excellent stiffness and offers good processability in a broad processing window. LyondellBasell customers report that *Lufflexen* hyPE 35P FA is used in high performance films where high strength and puncture resistance is required. It contains antioxidants and is delivered in pellet form.

This product is not intended for use in medical and pharmaceutical applications.

Application	Food Packaging Film; Heavy Duty Packaging; Products for Use in Property Modification
Market	Flexible Packaging
Processing Method	Blown Film
Attribute	Antioxidant; Good Flow; Good Puncture Resistance; High Impact Resistance; Low Gel

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (190 °C/2.16 kg)	0.75	g/10 min	ISO 1133-1
Density	0.936	g/cm ³	ISO 1183-1
Mechanical			
Tensile Modulus	600	MPa	ISO 527-1, -2
Tensile Stress at Yield	16	MPa	ISO 527-1, -2
Film			
Dart Drop Impact Strength, F50	370	g	ASTM D1709
Tensile Strength			
MD	43	MPa	ISO 527-1, -3
TD	42	MPa	ISO 527-1, -3
Tensile Strain at Break			
MD	600	%	ISO 527-1, -3
TD	650	%	ISO 527-1, -3
Thermal			
Vicat Softening Temperature, (A/50)	119	°C	ISO 306
Peak Melting Point	126	°C	ISO 11357-3
Optical			
Haze, (50 µm)	<35	%	ASTM D1003

Gloss		
(20°)	>10	ASTM D2457
(60°)	>50	ASTM D2457
Additional Information		
Test Specimen	Film	
Film properties tested using 50 μm thickness blown film extruded at a melt temperature of 200°C and a blow-up ratio of 2.5:1.		
Processing Parameters		
Extrusion Temperature	190-220 °C	