

Clear-Flex® SH 12

Polyethylene

Versalis S.p.A.

Message:

Clearflex SH 12 is an innovative compound made by polyethylene and polymers having elastomeric properties suitable for multilayer blown film extrusion. Thanks to its macromolecular structure, Clearflex SH 12 allows to obtain films that reach transverse deformations over 160% maintaining an optimal elastic memory, excellent puncture resistance and good transparency.

Application

Clearflex SH12 has been designed for the stretch hood production.

Clearflex SH 12 is used in the core layer of multilayer films, it can provide innovative and sustainable solutions for a wide range of applications including: beverage packaging, electrical appliances of all sizes, construction materials, bags of cement and fertilizers.

General Information			
Features	Good Clarity		
	Perforation resistance		
Uses	Blown Film		
	Packaging		
	Films		
	Bags		
	Electrical appliances		
	Multilayer film		
	Architectural application field		
Forms	Particle		
Processing Method	Blow film		
Physical	Nominal Value	Unit	Test Method
Density	0.900 - 0.910	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.25 - 0.60	g/10 min	ISO 1133
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	80	µm	
Tensile Stress			ISO 527-3
MD: yield, 80 µm, blow film	3.00	MPa	ISO 527-3
TD: yield, 80 µm, blow film	2.00	MPa	ISO 527-3
MD: fracture, 80 µm, blow film	28.0	MPa	ISO 527-3
TD: fracture, 80 µm, blow film	26.0	MPa	ISO 527-3
Tensile Elongation			ISO 527-3
MD: fracture, 80 µm, blow film	> 700	%	ISO 527-3
TD: fracture, 80 µm, blow film	> 700	%	ISO 527-3
Additional Information	Nominal Value	Unit	Test Method
Puncture	1400.0	kN/m	ASTM D5748

Extrusion	Nominal Value	Unit
Melt Temperature	180 - 210	°C

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