

# HIPTEN® 22003

Low Density Polyethylene

HIP-PetroHemija

## Message:

HIPTEN® 22003 is low density polyethylene resin developed for production of heavy-duty tubular film. HIPTEN® 22003 has outstanding mechanical properties, good optical properties and very good processability. Extruded films have good toughness, resistance to environmental stress cracking and homogeneous appearance.

Production of heavy-duty bags for packaging industrial products ( fertilizers, solid chemicals, pellets etc.), heavy-duty shrink films, etc.

HIPTEN® 22003 has Health Certificate issued by Institute for Health Protection of Serbia. Also, has Statement of Conformity, which declares product's conformity with the European norms for materials intended to come into contact with foodstuffs. Statement of Conformity is issued by Institute for Public Health, Maribor, Slovenia.

General Information			
Features	High ESCR (Stress Cracking Resistance)		
	Optical		
	Recyclable materials		
	Workability, good		
	Good toughness		
	Good appearance		
Uses	Packaging		
	Films		
	Shrinkable film		
	Heavy packing bag		
Agency Ratings	EC 1907/2006 (REACH)		
Forms	Particle		
Processing Method	Film extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.921	g/cm <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.30	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	46		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			ISO 527-2
Yield	10.0	MPa	ISO 527-2
Fracture	18.0	MPa	ISO 527-2
Tensile Strain (Break)	700	%	ISO 527-2
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	40	µm	
Tensile Strength			ISO 1184

TD: Yield, 40 μm	11.0	MPa	ISO 1184
MD: Break, 40 μm	26.0	MPa	ISO 1184
TD: Break, 40 μm	23.0	MPa	ISO 1184
Tensile Elongation			
MD: Break, 40 μm	400	%	ISO 1184
TD: Break, 40 μm	650	%	ISO 11925-2
Dart Drop Impact (40 μm)	150	g	ASTM D1709A
Elmendorf Tear Strength <sup>1</sup>			ASTM D1922
MD : 40.0 μm	135.1	kN/m	ASTM D1922
TD : 40.0 μm	193.0	kN/m	ASTM D1922
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	98.0	°C	ISO 306
Extrusion	Nominal Value	Unit	
Melt Temperature	180 - 200	°C	
Extrusion instructions			
Blow-up ratio: 1.6:1 to 3:1			
NOTE			
1.	Blown Film		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

#### Recommended distributors for this material

### Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

