HIPLEX® TR 144

High Density Polyethylene

HIP-PetroHemija

Message:

HIPLEX® TR 144, copolymer of ethylene and hexene is tailored for blown film production. Extraordinary melt toughness made possible to get film down to 0.006 mm thickness. Extruded film has high impact resistance, good tear strength, excellent antiblock and good barrier properties, low gel content and excellent sealing and printing properties.
Application:
HIPLEX® TR-144 is suitable for production of composite films, carrier bags and other kinds of packaging. It is also recommended for blow moulding of small and medium size containers.
HIPLEX® TR-144 has Health Certificate issued by Institute for Health Protection of Serbia. Also, HIPLEX® TR-144 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	
Additive	Antiblock
Features	Antiblocking
	Barrier Resin
	Copolymer
	Excellent Printability
	Food Contact Acceptable
	Good Heat Seal
	Good Melt Strength
	Good Tear Strength
	Hexene Comonomer
	High Impact Resistance
	Low Gel
Uses	Bags
	Blow Molding Applications
	Blown Containers
	Film
	Packaging
Agency Ratings	EC 1907/2006 (REACH)
Forms	Pellets
Processing Method	Blow Molding
	Blown Film

Physical	Nominal Value	Unit	Test Method
Density	0.947	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.18	g/10 min	ISO 1133

Environmental Stress-Cracking Resistance (Condition B, F50)	> 1000	hr	ISO 22088
Hardness	**Nominal Value**	**Unit**	**Test Method**
Shore Hardness (Shore D)	64		ISO 868
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress			ISO 527-2
Yield	21.0	MPa	
Break	32.0	MPa	
Tensile Strain (Break)	900	%	ISO 527-2
Films	**Nominal Value**	**Unit**	**Test Method**
Film Thickness - Tested	25	µm	
Tensile Stress			ISO 527-3
MD : Yield, 25 µm	24.0	MPa	
TD : Yield, 25 µm	19.0	MPa	
MD : Break, 25 µm	40.0	MPa	
TD : Break, 25 µm	32.0	MPa	
Tensile Elongation			ISO 527-3
MD : Break, 25 µm	550	%	
TD : Break, 25 µm	690	%	
Dart Drop Impact (25 µm)	80	g	ASTM D1709
Elmendorf Tear Strength [1]			ASTM D1922
MD : 25.0 µm	27.0	kN/m	
TD : 25.0 µm	270.3	kN/m	
Blow Molding Temperature [2]	195 to 220	°C	
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact Strength	No Break		ISO 180
Thermal	**Nominal Value**	**Unit**	**Test Method**
Vicat Softening Temperature	124	°C	ISO 306
NOTE			
1.	Blown Film		
2.	Blow-up ratio: 3.5-5 : 1, Neck height: 6-10 times die diameter		

Recommended distributors for this material

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