

Producer: Petro Hemija / Republic of Serbia

HIPLEX® TR-144

Description:

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.

Applications:

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.

PROPERTY	TEST METHOD	UNIT	NOMINAL VALUE
Melt Flow Rate	SPRS ISO 1133 condition D (ISO 1133 190°, 2.16kg)	g/10 min	0.18
Density	SPRS G.S2.510 method D (ISO 1183)	kg/cm ³	947
Tensile Strength at Break	SPRS G.S2.734 (film) SRPS G.S2.612 (plate) (ISO 527)	MPa	MD/TD 40/32 32
Tensile Strength at Yield	SPRS G.S2.734 (film) SRPS G.S2.612 (plate) (ISO 527)	MPa	MD/TD 40/32 21
Elongation At Break	SPRS G.S2.734 (film) SRPS G.S2.612 (plate) (ISO 527)	%	MD/TD 550/690 900
Izod Impact Strength	SPRS G.S2.617 (ISO 180)	kJ/m ³	no break
Shore D Hardness	SPRS/ISO 868 (ISO 868)	Shore D	64
Vicat Softening Point	SPRS/ISO 306 (ISO 306)	°C	124
ESC Resistance, F ₅₀	SPRS G.S2.623 condition B (ASTM D 1693)	h	>1000
Dart Drop	SPRS G.E4.111 (ASTM D 1709)		80
Tear Strength (Elmendorf)	SPRS G.E4.111 (ASTM D 1922)	g/mil	MD/TD 70/700

The values in this review are characteristic and are provided for guidance purposes only.

Storage:

Polymer pellets are packed in LDPE bags, each bag weighs 25 kg. Bags are arranged on pallets and wrapped in stretch foil. One pallet has total polymer weight of 1250 kg.