

TWO COLOURS



ONE DIRECTION

Polyethylene
TIPELIN 7100S

Bimodal HDPE for sheet extrusion

Description

TIPELIN 7100S is a high density bimodal polyethylene copolymer (with butene-1 as comonomer) intended for sheet extrusion of products with high stiffness, excellent environmental stress crack resistance and improved full notched creep behaviour. The grade contains antioxidant and acid scavenger.

Applications

TIPELIN 7100S is recommended for the extrusion of sheets of industrial parts and consumer packagings as well.

TIPELIN 7100S is also recommended for non-pressure pipe extrusion and for blow moulding of jerry cans for the packaging even of aggressive industrial chemicals.

TIPELIN 7100S is suitable for food contact, for manufacturing of pharmaceutical packing products and toys. The product complies with Food Contact, Pharmaceutical and Toy Safety Regulations.

Properties

	Test method	Unit	Typical value
Melt Mass-Flow Rate (MFR) (190 °C /5.0 kg)	ISO 1133	g/10 min	0.5
Density (23 °C) *	ISO 1183	kg/m ³	948
Tensile Strength at Yield *	ISO 527-1,2	MPa	25
Tensile Strain at Yield *	ISO 527-1,2	%	11
Tensile Strength at Break *	ISO 527-2	MPa	28
Tensile Strain at Break *	ISO 527-1,2	%	1100
Flexural Modulus *	ISO 178	MPa	1200
IZOD Impact Strength (notched, 23 °C) *	ISO 180/1A	kJ/m ²	16
Vicat Softening Temperature *	ISO 306/A 120	°C	125
Shore D Hardness *	ISO 868	-	63
ESCR F50 B (10% Igepal CO-630) *	ASTM D 1693	h	> 2000
FNCT	EN 12814-3	h	> 100
OIT (200 °C) *	EN 728	min	80

Typical properties, not to be used as specification.

* Average mechanical property values of several measurements carried out on standard pressed specimens (ISO 293) conditioned at room temperature (ISO 291).

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Processing

TIPELIN 7100S can be used in conventional extrusion and blow moulding machines. Recommended processing temperature 180-220 °C.

Storage and Handling

Pellets are packed in 25 kg PE-LD bags and transported on stretch-wrapped pallets at load of polymer 1375 kg. Heat treated pallets are available as well. Transportation in a road silo or rail silo is also available. For more detailed information please contact Sloznaft Petrochemicals and TVK sales representative.

Since polyethylene is a combustible substance, the fire safety rules applicable for combustible materials in warehouses and store rooms should be observed.

If polymer is stored in conditions of high humidity and fluctuating temperatures, then atmospheric moisture can condense inside the packing. If it happened, it is recommended the pellets to be dried before use. During the storage polyethylene should not be exposed to UV radiation. Producer does not take responsibility for any damages caused by adverse storage.

REACH Statement

Polymers are exempt of REACH registration. However their raw materials which mean monomers, catalysts and most additives have been pre-registered. SPC/TVK is committed to fully respect this new legislation and will only use REACH compliant raw materials. At this point in time SPC/TVK polyethylenes TIPELIN do not contain any substances specifically identified as SVHC at levels greater than 0.1%.

Safety

See MSDS.

Recycling

Polyethylene resins are suitable for recycling using modern recycling methods.

In-house production waste should be kept clean to facilitate direct recycling.

Disclaimer

The information provided in this publication has been compiled to the best of our present knowledge. However, in view of the various applications of polyethylene resins and the equipments used, the processing conditions may differ.

The recommendations and data herein are to be construed as informatory only and do not relieve users from carrying out their own tests and experiments prior to processing in order to check suitability for a specific use. It is the responsibility of those to whom we supply our products to ensure that any proprietary rights and existing laws and legislation are observed. Our products are under continuous development, therefore we reserve the right to change the information presented in this brochure at our own discretion.

The REACH statement herein does not constitute legal advice. The REACH statement is provided for informational purpose only.

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June 2009

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