

Polyethylene  
**TIPELIN PS 380-30/302**  
 HDPE for Pipe and sheet extrusion

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**Description**

**TIPELIN PS 380-30/302** is a black, medium density polyethylene copolymer (with hexen-1 as comonomer) grade. The product shows excellent environmental stress crack resistance and long service life. (MRS 8, PE 80) This grade contains primer and secondary antioxidants and slipping agent.

**Applications**

**TIPELIN PS 380-30/302** is recommended for gas and drinking water pipes, injection moulded fittings, extruded sheets, profiles and geomembrane.

**Suitability**

**TIPELIN PS 380-30/302** is suitable for drinking water application.

**Properties**

	Test method	Unit	Value Tolerance limits	Note
Melt flow rate (190 °C/5.0 kg)	ISO 1133/B	g/10 min	0.95 0,80-1,10	Guaranteed
Density	ISO 1183-2	-	<3 0,946-0,952	Guaranteed
Pellet number	1.3.3.1-2-007	n/g	20-65	Guaranteed
Granulate appearance				
Agglutinated pellet 4-5-6 or higher	1.3.3.1-2-004	n	>. 1 %	Guaranteed
Carbon content	ISO 6964	%	2-2,5	Guaranteed
Carbon dispersion	ISO 18553		> 3	Guaranteed
Tensile strength at yield *	ISO 527-3	MPa	19	Informative
Tensile strength*	ISO 527-3	MPa	31	Informative
Elongation at break*	ISO 527-3	%	1400	Informative
Flexural modulus*	ISO 178	MPa	750	Informative
Izod impact strength *	ISO 180	kJ/m <sup>2</sup>	13	Informative
Vicat softening temperature*	ISO 306	°C	120	Informative
Shore D hardness*	ISO 868	-	60,5	Informative
ESCR (F50 B method)*	ASTM D 1693	h	>2000	Informative
MRS classification	EN ISO 32162	-	8	Informative
LTHS (50 years/20s,C/97,5%)*	ISO 9080	N/mm	9.0	Informative
OIT (200 °C/DSC)*	EN 728	min	>40	Informative

\* Data should not be used for specification works. Average mechanical property values of several measurements carried out on standard specimens (ISO 293) conditioned at room temperature (ISO 291).

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### Processing

**TIPELIN PS 380-30/302** can be used in all conventional extrusion machines. Recommended processing temperature 170-220°C for extrusion and max. 250°C for injection moulded fittings.

### Storage and Handling

**TIPELIN PS 380-30/302** should be stored in dry conditions at temperatures -20 – +50°C and protected from UV-light. Improper storage can initiate degradation, which results in odour generation and colour changes and can have negative effects on the physical properties of the product.

### Safety

See MSDS.

### Recycling

Polyethylene resins are suitable for recycling using modern methods of shredding and cleaning. In-house production waste should be kept clean to facilitate direct recycling.

### Notes

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 equipment 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.

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