

Product Technical Information

ELTEX® TUB 171 Black

Eltex TUB 171 is a medium-density polyethylene copolymer designed for the extrusion of pressure pipes. It is classified PE 80 in accordance with ISO 12162 based on ISO 9080 analysis.

Characteristics

PE 80 Black pipe compound

Applications

- Gas
- Water
- Industrial

Properties

	Value	Units	Test Method
Physical			
Density (pigmented)	949	kg/m ³	ISO 1183/A
Melt Flow Rate (5 kg/190°C, Condition T)	0.85	g/10min	ISO 1133
Mechanical			
Tensile Strength at Yield (23°C @ 50mm/min)	20	MPa	ISO 527-2
Tensile Elongation at Break (23°C @ 50 mm/min)	> 350	%	ISO 527-2
Tensile Modulus (23°C @ 1 mm/min)	750	MPa	ISO 527-2
Thermal			
VICAT Softening Point (1kg)	121	°C	ISO 306
Thermal Stability (OIT, 210°C)	> 20	min	ISO 10837
Pigmentation			
Carbon Black Dispersion	< 3	Grade	ISO 18553
Carbon Black Content	2 to 2.5	%	ISO 6964

The values given are typical values measured on the product. These values should not be considered as specifications.

The registered trade marks ELTEX® & RIGIDEX® cover the polyolefins produced by BP Solvay Polyethylene.

Food Contact Applications

As dispatched from our plants BP Solvay Polyethylene Rigidex and Eltex grades meet the requirements of most European countries in respect of their usage in food contact and toys applications. Official confirmation of compliance with current requirements in the individual countries will be provided on request. No liability can be accepted for any damage, loss, or injury arising out of failure to obtain such confirmation, or failure to observe any recommendations given.

Ultra-Violet Light Stabilisation

Where used, UV stabilisers offer enhanced but not limitless protection against sunlight. A separate BP Solvay Polyethylene Technical Information Sheet entitled 'Guidance on the use of UV light stabilised grades' is available, and should be consulted before use of grades containing UV stabilisers.

Polyethylene and the Environment

"BP Solvay Polyethylene will act responsibly and caringly towards those who work for us, the community whom we serve and the environment in which we live".

Natural Rigidex and Eltex HDPE polymers, as supplied, can be recycled, incinerated or disposed of in landfill without detriment to the environment.

With recycling, clean waste can be re-used for many less demanding applications.

Alternatively, with properly controlled and efficient incineration, preferably linked to heat or other energy recovery systems, polyethylene's high calorific value will assist the combustion of municipal solid waste.

In landfill sites, Rigidex and Eltex HDPE grades do not degrade to produce voids, and do not emit dangerous gases or contribute to ground water pollution.

Natural Rigidex and Eltex HDPE polymers, as manufactured, comply with the limit for heavy metals (100 ppm total of lead, cadmium, mercury and hexavalent chromium) in packaging materials as defined in the European Union Directive 94/62/EC on packaging and packaging waste and the corresponding US CONEG regulations.

If pigments or other additives are incorporated into the Rigidex and Eltex HDPE polymers at the processing stage, the above statements may not be fully valid. BP Solvay Polyethylene will be pleased to offer advice in specific cases.

Health and Safety

Material Safety Data Sheets for Rigidex and Eltex grades are available, and should be consulted before handling and using Rigidex and Eltex grades.

Exclusion of Liability

Although BP Solvay Polyethylene ("BPS") endeavours to ensure that all information and advice relating to BPS materials or other materials howsoever provided to you by BPS is accurate and up to date, no representation or warranty, express or implied is made by BPS as to its accuracy or completeness. All such information and advice is provided in good faith and BPS is not, to the maximum extent permitted by law, liable for any action you may take as a result of relying on such information or advice or for any loss or damage, including any consequential loss, suffered by you as a result of taking such action.

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