

Product Technical Information

ELTEX[®] A4040

Eltex[®] A4040 is a medium-density polyethylene supplied as non pigmented natural pellet for the production of PE-Xb compounds using two-step process or for the manufacture of PEX pipes using a single-step process.

Characteristics

Natural polyethylene for silane PE-Xb processes

Applications

- Hot and cold water
- All classes of application in accordance with EN ISO15875 and ISO10508

Properties

	Value	Units	Test Method
Physical			
Density	944	kg/m ³	ISO 1183/A
Melt Flow Rate (2.16 kg/190°C, Condition D)	3.5	g/10min	ISO 1133
Mechanical			
Tensile Strength at Yield (23°C @ 50mm/min)	21	MPa	ISO 527-2
Tensile Elongation at Break (23°C @ 50 mm/min)	>350	%	ISO 527-2
Tensile Modulus (23°C @ 1 mm/min)	900	MPa	ISO 527-2
Thermal			
VICAT Softening Point (1kg)	123	°C	ISO 306

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



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Food Contact Applications

As dispatched from our plants PP and PE grades (like Rigidex[®], Eltex[®] and Eltex[®] P ones) 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.

Polyethylene, Polypropylene and the Environment

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

Natural PE and PP 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, PP and PE grades do not degrade to produce voids, and do not emit dangerous gases or contribute to ground water pollution.

Natural PP and PE 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 PP and PE polymers at the processing stage, the above statements may not be fully valid. INNOVENE will be pleased to offer advice in specific cases.

Health and Safety

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

Exclusion of Liability

Although INNOVENE endeavours to ensure that all information and advice relating to our materials or other materials howsoever provided to you by INNOVENE is accurate and up to date, no representation or warranty, express or implied is made by INNOVENE as to its accuracy or completeness. All such information and advice is provided in good faith and INNOVENE 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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