

## High SCG Resistance

High Density Polyethylene  
Pipe Grade

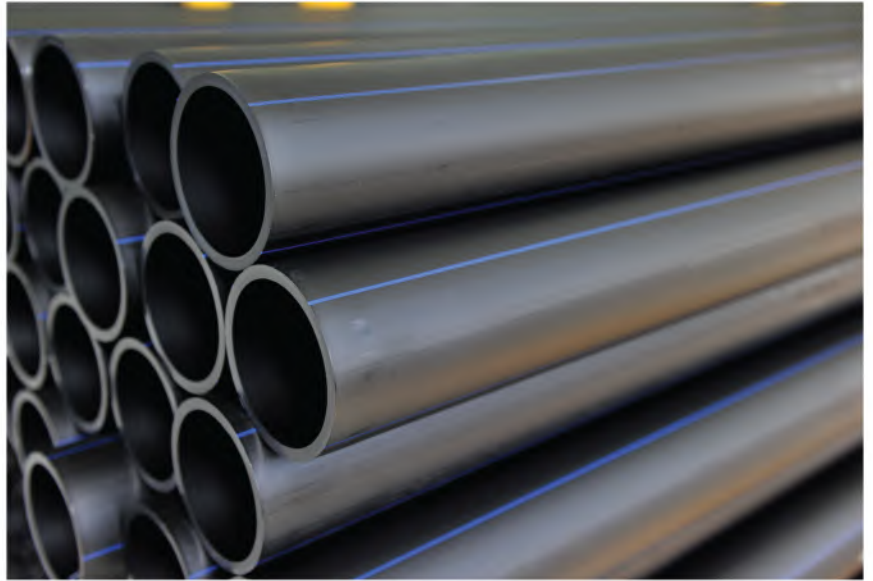
**HEX 4460**  
**PE80+**

**REACH Certified**  
**Food Contact Compliance Certified**

For more than 50 years, HDPE pipes have been successfully used in the water, gas and chemical transportation. These pipes have been used in various industries including urban and agricultural infrastructure, mining, oil, gas and petrochemical industries. In the Fourth Industrial Revolution, special HDPE grades are required to produce a variety of pipes and fittings that require less energy to produce, are environmentally friendly, and have a quick installation in harsh environments (trenchless installation). Thanks to the unique gas phase technology and catalyst, ASPC produces unique grade of HDPE pipe grade which is classified as a PE80+ with MRS > 8 MPa. HEX 4460 PE80+ is based on the ethylene and 1-hexene copolymers that has superior resistance to slow crack growth (SCG) and the durability of the pipe is maintained during fluid transportation.

**HEX4460 PE80+ Applications:**

- ▶ Drinking water distribution infrastructures
- ▶ Drainage pipe
- ▶ Plumbing application
- ▶ Slurries and other process fluid residues



**HEX 4460 PE80+ main characteristic:**

- ▶ Outstanding ESCR
- ▶ Good creep strength
- ▶ Good chemical resistance
- ▶ Good resistance to SCG & RCP
- ▶ Good process-ability
- ▶ Very good low temp. impact resistance

**HEX 4460 PE80+ Main Properties**

PROPERTIES	PHYSICAL				OTHER
	Density 23°C	Melt Flow Rate		OIT (200 °C)	FNCT (3.5 MPa, 2% Arcopal, 80 °C)
		190°C, 21.6 kg	190°C, 5 kg		
Test Method	ISO 1183	ISO 1133-1		ISO 11357-6	ISO 16770
Unit	g/cm <sup>3</sup>	g/10 min		min	h
HEX4460 PE80+	0.944	6	0.33	>30	>150

**ASPC Grade Naming**

First and Second Digit	Grade Typical Density (kg/m <sup>3</sup> )	Third and Fourth Digit	HLMI (g/10min, 21.6 kg at 190°C)
44	944	60	6.0