

BehCom1700

- Polyethylene Raised Temperature Compound

Product Description

BehCom1700 is a white polyethylene raised temperature for hot and cold water pipes. It has excellent stress crack resistance properties and long-term hydrostatic strength. BehCom1700 can be used for the outer layer of hot and cold drinking water pipes, Floor heating, Radiator connection, and Al composite pipe.

Properties			
Typical Properties	Test Method	Unit	Value
Physical			
Density	ISO 1183	g/cm ³	0.943
Melt Flow Index (190 °C, 2.16 kg)	ISO 1133	g/10min	0.7±0.1
Melt Flow Index (190 °C, 5 kg)	ISO 1133	g/10min	2.5±0.2
Mechanical			
Tensile Strength at Yield (50 mm/min)	ISO 527	MPa	≥ 16
Tensile Strength at Break (50 mm/min)	ISO 527	MPa	≥ 30
Tensile Strain at Break (50 mm/min)	ISO 527	%	≥750
Hardness	ISO 868	Shore D	61
Thermal			
Melting Temperature (DSC)	ASTM D3418	°C	134
Vicat Softening Point	ISO 306	°C	122

Technical Data Sheet

Processing Conditions

As a guide, the following temperature profile and other condition is recommended.

Single Screw Extruder (Conventional PE Screw, Screw L/D: 24-30)

The actual extrusion conditions depend on the screw, die design, pipe diameter, wall thickness, and throughput rate.

Hopper Zone	Cylinder (Barrel)	Head/Die Zone
Cooled	180-230 °C	210-230 °C

Shelf Life & Storage

Shelf life at proper storage is at least 6 months from the production date, but in case of a long storage time, potential moisture pick-up needs to be eliminated by drying before extrusion. Sacks should be stored in dry/closed condition and protected from sunlight.

Note

This documentation is made based on our tests and experiments in our R&D center with piled-up experience and knowledge. The values are measured on injection molded test specimens. It is suggested that the information contained in this document can be used for general indication. Therefore, you should not construe it as product specifications, and you should do appropriate tests before you consider your conditions for new applications.