



# Technical Data Sheet

## GS RT-221 Compound

### Description:

GS RT-221 is a polyethylene of raised temperature resistance (PE-RT Type II) compound that can be used for underfloor heating and cooling, radiator connection and drinking water installation. The PE-RT compound is designed for hot and cold water pressure multilayer PERT-AL-PERT, PEX-AL-PERT pipes and PERT single layer pipes with an EVOH anti-oxygen barrier. The PE-RT pipe product (According to DIN 16833/ISO 24033) show excellent internal pressure resistance under ambient and elevated temperature conditions, flexibility, high chemical and mechanical properties and excellent processability. The pipes are suitable for transporting water for a period of 50 years at a temperature of 20-80 °C and an operating pressure of 6-10 bar.

### General:

**Appearance:** Natural/High Purity Granule

**Application:** High temperature pressure pipe, Multilayer pipes, Single layer pipes, High voltage cable ducts

**Processing Method:** Extrusion

**Packaging:** 25 Kg Sack

### Properties:

Parameter	Test Method	Unit	Result
Density	ISO 1183	g/cm <sup>3</sup>	0.94
Melt Flow Index (190 °C/2.16kg)	ISO 1133	g/10 min	1.5
Tensile Strength at Break	ISO 527	MPa	32
Elongation at Break	ISO 527	%	750
Hardness shore D	DIN 53505	Shore D	60
Heat Deflection Temperature (0.45 MPa)	ISO 75	°C	120
Hydrostatic Strength (95 °C)	ISO 1167	h	>5000

### Extrusion:

Extrusion							
Zone	1	2	3	4	5	Head	Die
Temperature (°C)	130	150	170	180	190	200	200

### Notes:

- ❖ Test results have been obtained with laboratory equipment. Change the test devise may give different results outside of the standard.
- ❖ The customers are advised to check the product quality before commercial use.
- ❖ The compound should be stored in the original container securely under cool and dry conditions away from direct sunlight, heat and contamination.
- ❖ Shelf life at proper storage is about 36 months from the production date, but it is recommended to consume the compound within 18 months.