



P4609

POLYETHYLENE RESIN FOR PIPE EXTRUSION

Relene P4609 is a natural color grade for pipe extrusion. It possesses broad molecular weight distribution balancing processability and mechanical properties. This grade meets MFI and Density requirements of Material as per IS 4984:2016 for 'Polyethylene pipes for Water Supply - Specification'. The grade has good ESCR properties and suitable for blow molding applications also.

Typical Characteristics*			
Property	Test Method	Unit	Typical Value**
Melt Flow Index (190°C/5.0 Kg)	ASTM D1238	gm/10 min	0.9
Density (23°C)	ASTM D1505	gm/cm ³	0.949
Tensile Strength at Yield	ASTM D638	MPa	24.0
Elongation at Yield	ASTM D638	%	11
Elongation at Break	ASTM D638	%	>600
Oxidative – Induction Time	ASTM D3895	Min	>30

* Typical values not to be taken as specification

**Mechanical Properties are on Compression Moulding

Applications:

- Pipes for drinking water, sprinkler irrigation, Industrial effluent
- Also can be used for general Purpose Blow Molding Containers

Typical Process Conditions:

- Typical Process Temp (°C) - 180 – 220

Regulatory Information

- The level of antioxidant is not more than 0.3% by mass of the resin.
- For regulatory information please contact organization representative.

Storage Recommendations

- Bags should be stored in dry/closed conditions at temperatures below 50°C and protected from UV / direct sunlight.

DISCLAIMER

The information contained herein may include typical properties and processing parameters of the grade or its

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typical performances when used in respective applications. The values given above are based on analysis of representative samples and not the actual product supplied. It is the customer's responsibility to inspect and test our grades in order to satisfy itself as to the suitability of the products for customers' particular application. The customer is solely responsible for all determinations regarding any use of material or product and any process in its area of interest. RIL assumes no obligation or liability for any loss, damage or injury directly or indirectly suffered or incurred as a result of using any of the information or product given in this document. The information and data presented herein is true and accurate to the best of our knowledge. No warranty or guarantee expressed or implied, is made regarding performance or otherwise. This information and data may not be considered as a suggestion to use our products without taking into account existing patents, or legal provisions or regulations, whether national or international. The user of any information and/or data is advised to obtain the latest details from any of the offices of the company or its authorized agents, as the information and/or data is subject to change based on the research and development work undertaken by the company.