



E52A003/E52A003N

High Density Polyethylene for Pipe/Film Extrusion

Product Description and Typical Applications:

E52A003/E52A003N is recommended for pipe application like potable water, sprinkler, effluent, waste water systems and meeting the hydrostatic strength requirements as per IS 4984:2016 for PE-63 material. The material conforms to natural resin designation IS 7328-3B-PB-FXTA of IS 7328:2020.

| Property | Values* | Unit | Test Method |
|------------------------------------|---------|-----------|--------------------|
| Melt Flow Index (I ₂) | 0.22 | g/10min | ASTM D1238 |
| Melt Flow Index (I_5) | 0.95 | g/10min | ASTM D1238 |
| Density @ 23°C | 0.954 | g/cc | ASTM D1505 |
| Tensile Strength @ Yield | 240 | kg/cm^2 | ASTM D638, Type IV |
| Elongation @ Yield | 10 | % | ASTM D638, Type IV |
| Elongation (a) Break | >600 | % | ASTM D638, Type IV |
| Flexural Modulus | 10000 | kg/cm^2 | ASTM D790 |
| Izod Impact Strength | 120 | j/m | ASTM D256 |
| Shore D Hardness | 62 | _ | ASTM D2240 |
| ESCR (10% Igepol), F ₅₀ | >500 | hrs | ASTM D1693 |
| Vicat Softening Point | 123 | °C | ASTM D1525 |

* Typical characteristics of the product given purely as a guide. Mechanical properties were determined on compression moulded specimens.

Processing Guidelines:

Barrel temperature: 170 - 210°C

Regulatory Information:

Certificate is available on request.

Packaging & Storage:

E52A003/E52A003N is available in natural colour, pellet form in 25 kg woven sacks. The product should be stored in dry conditions at temperature below 50°C and protected from UV light.

For any technical assistance contact:

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The information, data and suggestions contained herein are to the best of our knowledge accurate and reliable. It is the ultimate responsibility of the user to ensure that the product is suited and the information is applicable to the user specific application.