



AER003N

RANDOM COPOLYMER

FOR EXTRUDED PIPES AND SHEETS

Repol AER003N is recommended for pipes for pressure applications, sheets for thermoforming and extrusion blow moulding.

| Typical Characteristics | | | |
|---------------------------------------|-------------|-----------|----------------|
| Property | Test Method | Unit | Typical Value* |
| Melt Flow Rate (230°C/2.16 kg) | ASTMD1238 | gm/10 min | 0.3 |
| Melt Flow Rate (230°C/5.0 kg) | ASTMD1238 | gm/10 min | 1 |
| Tensile Strength at Yield (50mm/min) | ASTMD638 | MPa | 27 |
| Elongation at Yield (50mm/min) | ASTMD638 | % | 14 |
| Elongation at Break (50mm/min) | ASTMD638 | % | > 500 |
| Flexural Modulus (1% secant) | ASTMD790A | MPa | 850 |
| Notched Izod Impact Strength (23°C) | ASTMD256 | J/m | 550 |
| Type of Break | | | No Break |
| Vicat Softening Point | ASTMD1525 | °C | 130 |
| Heat Deflection Temperature (455 kPa) | ASTMD648 | °C | 92 |

* Typical values, not to be taken as specification. All the mechanical properties as per ASTM D638 Type I specimen injection moulded in accordance with ASTM D4101

Applications

Pipes, fittings, sheets & thermoforming

Regulatory Information

Meets the requirements stipulated in IS 10910 on 'Specification for Polypropylene and its Copolymers for safe use in contact with foodstuff, pharmaceuticals, and drinking water'. Additives incorporated in this grade conform to the positive list of constituents as prescribed in IS 10909. The grade and the additives incorporated in it also comply with the FDA:CFR Title 21, 177.1520, Olefin polymers

Storage Recommendations

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