

Prisma® 2910

Polypropylene Random Copolymer

Braskem

Message:

Description:

Prisma 2910 is a high melt flow rate random copolymer for injection moulding applications of transparent containers for freezer application. This product offers high impact strength at low temperatures and excellent processability.

Applications:

Transparent containers for freezer storage; Containers for microwave heating directly from freezer storage; Paint drums.

| General Information | | | |
|---|-----------------------------------|-------------------|-------------|
| Features | Good Processability | | |
| | High Flow | | |
| | High Impact Resistance | | |
| | Low Temperature Impact Resistance | | |
| | Random Copolymer | | |
| Uses | Containers | | |
| | Drums | | |
| | Food Containers | | |
| Agency Ratings | FDA 21 CFR 177.1520 | | |
| Forms | Pellets | | |
| Processing Method | Injection Molding | | |
| Physical | Nominal Value | Unit | Test Method |
| Specific Gravity | 0.902 | g/cm ³ | ASTM D792 |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) | 17 | g/10 min | ASTM D1238 |
| Hardness | Nominal Value | Unit | Test Method |
| Rockwell Hardness (R-Scale, Injection Molded) | 33 | | ASTM D785 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength (Yield, Injection Molded) | 21.0 | MPa | ASTM D638 |
| Tensile Elongation (Yield, Injection Molded) | 19 | % | ASTM D638 |
| Flexural Modulus - 1% Secant (Injection Molded) | 600 | MPa | ASTM D790 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact | | | ASTM D256 |
| -20°C, Injection Molded | 20 | J/m | |
| 23°C, Injection Molded | 100 | J/m | |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load | | | ASTM D648 |

| 0.45 MPa, Unannealed, Injection Molded | 67.0 | °C | |
|--|------------------|------|-------------------------|
| 1.8 MPa, Unannealed, Injection Molded | 44.0 | °C | |
| Vicat Softening Temperature | 144 | °C | ASTM D1525 ¹ |
| Optical | Nominal Value | Unit | Test Method |
| Haze (1000 µm, Injection Molded) | 28 | % | ASTM D1003 |
| NOTE | | | |
| 1. | Loading 1 (10 N) | | |

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