

Koylene SR20NS

Polypropylene Random Copolymer

Reliance Industries Limited

Message:

Koylene SR20NS is Polypropylene Random copolymer suitable for Blow Moulding and Extrusion process. The grade combines high clarity and gloss. FOOD CONTACT APPLICATIONS: This grade meets with the requirements of Indian Standard IS: 10910 on "Specifications for Polypropylene and its copolymers for its safe use in contact with foodstuffs, 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 also comply with FDA:CFR:Title 21,177.1520, olefin polymers. The grade complies with the systemic and intracutaneous tests with four different extractants as per USP XXIX and I.P 96. The grade also complies with undue toxicity test as per E.P and skin irritation test as per I.S

| General Information | | | |
|--------------------------------------------------------------------|---------------------------------------------------------------------------|-------------------|-------------|
| Features | Food Contact Acceptable High Clarity High Gloss Random Copolymer | | |
| Agency Ratings | FDA 21 CFR 177.1520 | | |
| Appearance | Natural Color | | |
| Forms | Pellets | | |
| Processing Method | Blow Molding Extrusion | | |
| Physical | Nominal Value | Unit | Test Method |
| Density | 0.900 | g/cm ³ | ASTM D1505 |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) | 1.9 | g/10 min | ASTM D1238 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength ¹ (Yield, 3.20 mm, Injection Molded) | 26.0 | MPa | ASTM D638 |
| Tensile Elongation ² (Yield, 3.20 mm, Injection Molded) | 12 | % | ASTM D638 |
| Flexural Modulus | 800 | MPa | ASTM D790 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact | 65 | J/m | ASTM D256 |
| Thermal | Nominal Value | Unit | Test Method |
| Vicat Softening Temperature | 130 | °C | ASTM D1525 |
| Extrusion | Nominal Value | Unit | |
| Cylinder Zone 1 Temp. | 160 to 210 | °C | |
| Cylinder Zone 2 Temp. | 160 to 210 | °C | |
| Cylinder Zone 3 Temp. | 160 to 210 | °C | |
| Cylinder Zone 4 Temp. | 160 to 210 | °C | |

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| Cylinder Zone 5 Temp. | 160 to 210 | °C |
| Die Temperature | 190 to 210 | °C |

NOTE

1. Type I
2. Type I

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