

### Injection Molding

#### Applications

- Needle hubs
- Blood collection tubes
- Catheter connections
- Laboratory disposable
- Diagnostic disposable
- Disposable non pre-filled syringes

**Product Description:** MED RCoPP 20905 is a transparent polypropylene random copolymer, modified with a nucleating agent, suitable for articles which need post sterilisation with radiation. It is characterized by easy processability, high transparency, high gloss and a good stiffness-impact balance. Products moulded from this grade and radiated with the dose of 25 kGy have a shelf-life of 5 years, if properly stored. Material can also be sterilised with ethylene oxide and steam.

Property	English Values	SI Values	Method
Melt Index (230°C/2.16 Kg)	20 g/10min	20 g/10min	ISO 1133
Density	0.905 g/cm <sup>3</sup>	0.905 g/cm <sup>3</sup>	ISO 1183
Mold Shrinkage	1.0-2.0 %	1.0-2.0 %	
Tensile Modulus	167000 psi	1150 MPa	ISO 527-2/1
Tensile Stress at Yield	4060 psi	28.0 MPa	ISO 527-2/50
Tensile Strain at Yield	12 %	12 %	ISO 527-2/50
Flexural Modulus	160000 psi	1100 MPa	ISO 178
Charpy Notched Impact @ 73 °F	2.9 ft-lb/in <sup>2</sup>	6.0 KJ/m <sup>2</sup>	ISO 179/1eA
Heat Deflection Temperature 66 psi	176 °F	80.0 °C	ISO 75-2/B
Processing Temperature	428 - 482 °F	220 -250 °C	
Mold Temperature	86 - 104 °F	30 - 40 °C	
Holding Pressure	2900 - 7250 psi	20.0 - 50.0 MPa	

This information, to our knowledge, is believed to be correct. The use of this product in its actual conditions are beyond our control and satisfactory results for this product is the customer's sole responsibility. User must make their own decisions regarding its suitability for their equipment and final products.

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