

# Sasol Polymers PP CUV448

Polypropylene Impact Copolymer

Sasol Polymers

Message:

Features

Ultra high flow

Narrow molecular weight distribution

Particularly suitable for injection moulding of thin walled products in fast cycling multi-cavity packaging applications

Improved impact toughness properties in low temperature applications

Contains a nucleating agent which ensures rapid crystallisation, resulting in an improved impact to stiffness balance as well as shorter cooling times

Applications

Injection moulding

Yoghurt cups

Margarine tubs

Dairy containers

Cosmetic containers

Caps and closures

Aerosol dust covers

Household and domestic articles

| General Information |                                      |
|---------------------|--------------------------------------|
| Additive            | Nucleating agent                     |
|                     | Antistatic property                  |
|                     | Unspecified additive                 |
| Features            | Nucleated                            |
|                     | Impact copolymer                     |
|                     | Antistatic property                  |
|                     | High liquidity                       |
|                     | Low temperature impact resistance    |
|                     | Compliance of Food Exposure          |
|                     | Narrow molecular weight distribution |
| Uses                | Thin wall parts                      |
|                     | Shield                               |
|                     | Household goods                      |
|                     | Container                            |
|                     | Food container                       |
|                     | Shell                                |
| Agency Ratings      | EC 1935/2004                         |
|                     | FDA 21 CFR 177.1520(a)(3)(i)(c)(1)   |
|                     | FDA 21 CFR 177.1520(c) 3.1a          |
| Forms               | Particle                             |

|                                           |                   |                   |                 |
|-------------------------------------------|-------------------|-------------------|-----------------|
| Processing Method                         | Injection molding |                   |                 |
| Physical                                  | Nominal Value     | Unit              | Test Method     |
| Density                                   | 0.905             | g/cm <sup>3</sup> | ISO 1183        |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) | 80                | g/10 min          | ISO 1133        |
| Molding Shrinkage                         |                   |                   | ISO 294-4       |
| Vertical flow direction                   | 1.2               | %                 | ISO 294-4       |
| Flow direction                            | 1.2               | %                 | ISO 294-4       |
| Hardness                                  | Nominal Value     | Unit              | Test Method     |
| Ball Indentation Hardness                 | 50.0              | MPa               | ISO 2039-1      |
| Mechanical                                | Nominal Value     | Unit              | Test Method     |
| Tensile Modulus                           | 1100              | MPa               | ISO 527-2/1A/1  |
| Tensile Stress (Yield)                    | 24.0              | MPa               | ISO 527-2/1A/50 |
| Tensile Strain                            |                   |                   | ISO 527-2/1A/50 |
| Yield                                     | 5.0               | %                 | ISO 527-2/1A/50 |
| Fracture                                  | > 50              | %                 | ISO 527-2/1A/50 |
| Flexural Modulus                          | 1200              | MPa               | ISO 178         |
| Impact                                    | Nominal Value     | Unit              | Test Method     |
| Charpy Notched Impact Strength            |                   |                   | ISO 179/1eA     |
| -20°C                                     | 3.5               | kJ/m <sup>2</sup> | ISO 179/1eA     |
| 0°C                                       | 5.0               | kJ/m <sup>2</sup> | ISO 179/1eA     |
| 23°C                                      | 7.0               | kJ/m <sup>2</sup> | ISO 179/1eA     |
| Thermal                                   | Nominal Value     | Unit              | Test Method     |
| Heat Deflection Temperature               |                   |                   |                 |
| 0.45 MPa, not annealed                    | 83.0              | °C                | ISO 75-2/B      |
| 1.8 MPa, not annealed                     | 50.0              | °C                | ISO 75-2/A      |
| Vicat Softening Temperature               |                   |                   |                 |
| --                                        | 149               | °C                | ISO 306/A120    |
| --                                        | 67.0              | °C                | ISO 306/B120    |
| Melting Temperature                       | 163               | °C                | ISO 11357-3     |
| Injection                                 | Nominal Value     | Unit              |                 |
| Hopper Temperature                        | 40.0 - 60.0       | °C                |                 |
| Rear Temperature                          | 180 - 260         | °C                |                 |
| Middle Temperature                        | 220 - 280         | °C                |                 |
| Front Temperature                         | 240 - 280         | °C                |                 |
| Nozzle Temperature                        | 220 - 280         | °C                |                 |
| Processing (Melt) Temp                    | 220 - 280         | °C                |                 |
| Mold Temperature                          | 20.0 - 60.0       | °C                |                 |
| Injection instructions                    |                   |                   |                 |
| Zone 4: 240 to 280°C                      |                   |                   |                 |

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