



# 401-NA01

## Product Technical Information

Polypropylene – Impact Copolymer

**401-NA01** is a nucleated low melt flow rate, very high impact copolymer for demanding industrial applications. This nucleated grade allows a faster cooling and excellent dimensional stability. It offers a superior balance of stiffness and impact strength and low gel content compared to competitive impact copolymers of similar melt flow rate.

## Applications

- Corrugated sheet (twin walled sheet)
- Corrugated pipe and fittings
- Sheets for thermforms
- Injection moulding

## Benefits and Features

- Improved impact / stiffness balance
- Very low gel content
- Superior surface quality
- Superior processability

| Properties                         |              | Test Methods | Values | Units             |
|------------------------------------|--------------|--------------|--------|-------------------|
| <b>Physical</b>                    |              |              |        |                   |
| Melt Flow Rate                     | 230°C/2.16kg | ISO 1133     | 1.2    | g/10min           |
| <b>Mechanical</b>                  |              |              |        |                   |
| Flexural Modulus                   | @ 23°C       | ISO 178      | 1300   | MPa               |
| Tensile Strength                   | @ Yield      | ISO 527-1,-2 | 27     | MPa               |
| Izod Impact Strength,<br>Notched   | @ +23°C      | ISO 180/1A   | 45     | kJ/m <sup>2</sup> |
|                                    | @ -20°C      | ISO 180/1A   | 7.5    | kJ/m <sup>2</sup> |
| Charpy Impact Strength,<br>Notched | @ +23°C      | ISO 179/1eA  | 50     | kJ/m <sup>2</sup> |
|                                    | @ -20°C      | ISO 179/1eA  | 8      | kJ/m <sup>2</sup> |



# 401-NA01

## Thermal

|                             |            |             |     |    |
|-----------------------------|------------|-------------|-----|----|
| Melting Point               |            | ASTM D 3417 | 165 | °C |
| Vicat Softening Temperature | @ 10 N     | ISO 306/A   | 154 | °C |
| HDT                         | @ 0.45 MPa | ISO 75/B    | 91  | °C |

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- Data should not be used for specification work