# Technical Data Sheet

## *Clyrell* EC390T

Polypropylene, Specialty Products

### Product Description

*Clyrell* EC390T is a high flow clarified polyolefinic resin used in injection moulding applications.
*Clyrell* EC390T features a good impact resistance at room and sub-zero temperature, high gloss and good resistance to stress whitening.
*Clyrell* EC390T is typically used by customers in clear impact container, toys, housewares

This grade is not intended for medical and pharmaceutical applications.

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|---|---|
| **Application** | Clear Containers; Housewares; Sports, Leisure & Toys; TWIM Food Containers; TWIM Non-food Containers |
| **Market** | Consumer Products; Rigid Packaging |
| **Processing Method** | Injection Molding |
| **Attribute** | High Flow; High Gloss; Low Shrinkage; Medium Impact Resistance; Medium Stiffness; Nucleated |

| Typical Properties | Nominal Value | Units | Test Method |
|---|---|---|---|
| **Physical** | | | |
| Melt Flow Rate, (230 °C/2.16 kg) | 45 | g/10 min | ISO 1133-1 |
| Density | 0.90 | g/cm³ | ISO 1183-1 |
| **Mechanical** | | | |
| Tensile Modulus | 1150 | MPa | ISO 527-1, -2 |
| Tensile Stress at Yield | 23 | MPa | ISO 527-1, -2 |
| Tensile Strain at Break | >50 | % | ISO 527-1, -2 |
| Tensile Strain at Yield | 13 | % | ISO 527-1, -2 |
| **Impact** | | | |
| Charpy Impact Strength - Notched | | | |
| (23 °C, Type 1, Edgewise, Notch A) | 5 | kJ/m² | ISO 179 |
| (0 °C, Type 1, Edgewise, Notch A) | 4 | kJ/m² | ISO 179 |
| (-20 °C, Type 1, Edgewise, Notch A) | 3 | kJ/m² | ISO 179 |
| Ductile/Brittle Transition Temperature | <-50 | °C | ISO 6603-2 |
| **Optical** | | | |
| Haze, (1 mm - injection molded disc) | 30 | % | ASTM D1003 |