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.

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