

CoPP 20.3

Polypropylene Impact Copolymer



Overview

CoPP 20.3 is a high crystallinity, high impact copolymer resin with medium melt flow rate and excellent processing attributes. It is designed to optimize cycle times by improving mold release on injection molded parts.

Property	Value	Unit	ASTM
Melt index (condition 230°C/2.16 kg)	20	g/10 min	D 1238
Density (g/cm ³)	0.900	g/cm ³	D 792
Tensile Strength (Yield)	23.8	MPa	D638
Tensile Strength (Yield, ISO)	23.1	MPa	ISO 527- 2/50
Tensile Elongation (Yield)	4.5	%	D638
Tensile Strain (Yield, ISO)	4.2	%	ISO 527- 2/50
Flexural Modulus – 1 % Secant	1280	MPa	D790A
Flexural Modulus – 1 % Secant	1480	MPa	D790B
Flexural Modulus – 1 % Secant (ISO)	1280	MPa	ISO 178
Charpy Notched Impact Strength (-30 °C)	7.4	kJ/m ²	ISO 179/1eA
Charpy Notched Impact Strength (-20 °C)	7.6	kJ/m ²	ISO 179/1eA

Property	Value	Unit	ASTM
Charpy Notched Impact Strength (0 °C)	9.0	kJ/m ²	ISO 179/1eA
Charpy Notched Impact Strength (23 °C)	14.0	kJ/m ²	ISO 179/1eA
Notched Izod Impact (23 °C)	160	J/m	D256A
Notched Izod Impact Strength (-40 °C)	7.1	kJ/m ²	ISO 180/1A
Notched Izod Impact Strength (-20 °C)	7.8	kJ/m ²	ISO 180/1A
Notched Izod Impact Strength (23 °C)	14	kJ/m ²	ISO 180/1A
Gardner Impact (-29 °C, 3.18 mm)	22.3	J	D5420
Deflection Temperature Under Load (0.45 MPa, Unannealed)	105	°C	D648
Deflection Temperature Under Load (0.45 MPa, Unannealed)	88.3	°C	ISO 75-2/B
Deflection Temperature Under Load (1.8 MPa, Unannealed)	50	°C	ISO 75-2/A

Additives: Antistatic + Nucleating Agent