Technical Data Sheet

Moplen EP300K

Polypropylene, Impact Copolymer

Product Description

Moplen EP300K is a low fluidity impact copolymer suitable for injection moulding applications.
The product exhibits very high impact strength even at low temperature combined with a good stiffness.
Moplen EP300K is typically used by customers in a wide range of applications including houseware items and crates.

This grade is not intended for medical and pharmaceutical applications.

Application	Caps & Closures; Containers; Housewares; Sports, Leisure & Toys
Market	Consumer Products; Rigid Packaging
Processing Method	Injection Molding; Thermoforming
Attribute	Low Flow; Medium Impact Resistance; Medium Stiffness

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (230 °C/2.16 kg)	4	g/10 min	ISO 1133-1
Density	0.90	g/cm³	ISO 1183-1
Mechanical			
Tensile Modulus	1200	MPa	ISO 527-1, -2
Tensile Stress at Yield	27	MPa	ISO 527-1, -2
Tensile Strain at Break	>50	%	ISO 527-1, -2
Tensile Strain at Yield	9	%	ISO 527-1, -2
Impact			
Charpy Impact Strength - Notched			
(23 °C, Type 1, Edgewise, Notch A)	13	kJ/m²	ISO 179
(0 °C, Type 1, Edgewise, Notch A)	6	kJ/m²	ISO 179
(-20 °C, Type 1, Edgewise, Notch A)	4.5	kJ/m²	ISO 179
Hardness			
Ball Indentation Hardness	53	MPa	ISO 2039-1
Thermal			
Vicat Softening Temperature, (A50)	150	°C	ISO 306
Deflection Temperature Under Load, (0.45 MPa, Unannealed)	75	°C	ISO 75B-1, -2