Technical Data Sheet

Moplen EP300U

Polypropylene, Impact Copolymer

Product Description

Moplen EP300U is a very high flow heterophasic copolymer used for injection molding.
Moplen EP300U features an excellent balance between easy processing and good impact strength.
The main applications of *Moplen* EP300U are thin-walled injection moulding applications and technical compounds.

Application	TWIM Food Containers; TWIM Non-food Containers
Market	Compounding; Consumer Products; Rigid Packaging
Processing Method	Compounding; Injection Molding
Attribute	High Flow; High Impact Resistance; Low Temperature Impact Resistance; Medium Stiffness

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (230 °C/2.16 kg)	70	g/10 min	ISO 1133-1
Density	0.89	g/cm³	ISO 1183-1
Mechanical			
Flexural Modulus	900	MPa	ISO 178
Tensile Modulus	1000	MPa	ISO 527-1, -2
Tensile Stress at Break	15.5	MPa	ISO 527-1, -2
Tensile Stress at Yield	23	MPa	ISO 527-1, -2
Tensile Strain at Break	70	%	ISO 527-1, -2
Tensile Strain at Yield	7	%	ISO 527-1, -2
Impact			
Charpy Impact Strength - Notched			
(23 °C, Type 1, Edgewise, Notch A)	7	kJ/m²	ISO 179
(0 °C)	4	kJ/m²	ISO 179
(-20 °C, Type 1, Edgewise, Notch A)	3	kJ/m²	ISO 179
Thermal			
Vicat Softening Temperature, (A50)	145	°C	ISO 306
Deflection Temperature Under Load, (0.45 MPa, Unannealed)	72	°C	ISO 75B-1, -2
DSC Melting Point	163	°C	DSC