



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. Moplen EP300U is not intended for use in medical and pharmaceutical applications.

Product Characteristics

Status	Commercial: Active
Test Method used	ISO
Availability	Europe, Africa-Middle East
Processing Methods	Extrusion Compounding, Injection Molding
Typical Customer Applications	TWIM Food Containers, TWIM Non-food Containers

Typical Properties	Method	Value	Unit
Physical			
Density	ISO 1183	0.9	g/cm ³
Melt flow rate (MFR) (230°C/2.16kg)	ISO 1133	70	g/10 min
Mechanical			
Tensile Modulus	ISO 527-1, -2	1200	MPa
Tensile Stress at Yield	ISO 527-1, -2	24	MPa
Tensile Strength at Yield	ISO 8986-2	7	%
Tensile Strength at Break	ISO 8986-2	50	%
Impact			
Charpy unnotched impact strength (23 °C, Type 1, Edgewise) <i>Note: no break</i> (0 °C, Type 1, Edgewise) (-20 °C, Type 1, Edgewise)	ISO 179	177 142 100	kJ/m ² kJ/m ² kJ/m ²
Charpy notched impact strength (23 °C, Type 1, Edgewise, Notch A) (0 °C, Type 1, Edgewise, Notch A) (-20 °C, Type 1, Edgewise, Notch A)	ISO 179	7.1 4.0 3.1	kJ/m ² kJ/m ² kJ/m ²
Ductile/Brittle transition temperature	ISO 6603-2	<-50	°C
Thermal			
Heat deflection temperature B (0.45 MPa) Unannealed	ISO 75B-1, -2	71	°C
Vicat softening temperature (A50 (50°C/h 10N)) (B50 (50°C/h 50N))	ISO 306	144 62	°C °C

Notes

Typical properties; not to be construed as specifications.