



## Moplen EP448T

### Polypropylene, Impact Copolymer

#### Product Description

Moplen EP448T is a nucleated heterophasic copolymer with antistatic addition used for injection moulding applications.

Moplen EP448T has a very good flowability and a good impact/stiffness balance.

The main applications of Moplen EP448T are thin walled packaging, housewares and closures.

#### Product Characteristics

<b>Status</b>	Commercial: Active
<b>Test Method used</b>	ISO
<b>Availability</b>	Europe, Africa-Middle East
<b>Processing Methods</b>	Injection Molding
<b>Features</b>	Antistatic, Good Flow, Good Impact Resistance , Nucleated, Good Stiffness
<b>Typical Customer Applications</b>	Caps & Closures, Housewares, Opaque Containers, Sports, Leisure and Toys

Typical Properties	Method	Value	Unit
<b>Physical</b>			
Density	ISO 1183	0.9	g/cm <sup>3</sup>
Melt flow rate (MFR) (230°C/2.16kg)	ISO 1133	48	g/10 min
Melt volume flow rate (230°C/2.16kg)	ISO 1133	65	cm <sup>3</sup> /10min
<b>Mechanical</b>			
Tensile Modulus	ISO 527-1, -2	1350	MPa
Tensile Stress at Yield	ISO 527-1, -2	27	MPa
Tensile Strain at Break	ISO 527-1, -2	40	%
Tensile Strain at Yield	ISO 527-1, -2	5	%
<b>Impact</b>			
Charpy unnotched impact strength	ISO 179		
(23 °C, Type 1, Edgewise)		No Break	kJ/m <sup>2</sup>
(0 °C, Type 1, Edgewise)		100	kJ/m <sup>2</sup>
(-20 °C, Type 1, Edgewise)		75	kJ/m <sup>2</sup>
Charpy notched impact strength	ISO 179		
(23 °C, Type 1, Edgewise, Notch A)		5.0	kJ/m <sup>2</sup>
(0 °C, Type 1, Edgewise, Notch A)		3.5	kJ/m <sup>2</sup>
(-20 °C, Type 1, Edgewise, Notch A)		2.5	kJ/m <sup>2</sup>
<b>Hardness</b>			
Ball indentation hardness (H 358/30)	ISO 2039-1	62	MPa
<b>Thermal</b>			
Heat deflection temperature B (0.45 MPa) Unannealed	ISO 75B-1, -2	90	°C
Vicat softening temperature A/50	ISO 306	151	°C
Vicat softening temperature B/50	ISO 306	70	°C

#### Notes

Typical properties; not to be construed as specifications.