



## Moplen EP548P

### Polypropylene, Impact Copolymer

#### Product Description

Moplen EP548P is a nucleated heterophasic copolymer, suitable for injection moulding applications, and contains an anti-static agent. It exhibits a high stiffness combined with a medium fluidity.

Moplen EP548P is extensively used in houseware, furniture, cylindrical containers and crates.

#### 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, Impact Copolymer, Medium Flow, Nucleated, Good Stiffness
<b>Typical Customer Applications</b>	Crates, Furniture, Housewares, Opaque Containers

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	16	g/10 min
Melt volume flow rate (230°C/2.16Kg)	ISO 1133	22	cm <sup>3</sup> /10min
<b>Mechanical</b>			
Tensile Modulus	ISO 527-1, -2	1550	MPa
Tensile Stress at Yield	ISO 527-1, -2	28	MPa
Tensile Strain at Break	ISO 527-1, -2	> 50	%
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)		135	kJ/m <sup>2</sup>
(-20 °C, Type 1, Edgewise)		90	kJ/m <sup>2</sup>
Charpy notched impact strength	ISO 179		
(23 °C, Type 1, Edgewise, Notch A)		8	kJ/m <sup>2</sup>
(0 °C, Type 1, Edgewise, Notch A)		4	kJ/m <sup>2</sup>
(-20 °C, Type 1, Edgewise, Notch A)		3	kJ/m <sup>2</sup>
Ductile/Brittle transition temperature	ISO 6603-2	-45	°C
<b>Hardness</b>			
Ball indentation hardness (H 358/30)	ISO 2039-1	69	MPa
<b>Thermal</b>			
Heat deflection temperature B (0.45 MPa) Unannealed	ISO 75B-1, -2	100	°C
Vicat softening temperature	ISO 306		
(A50 (50°C/h 10N))		147	°C
(B50 (50°C/h 50N))		70	°C

#### Notes

Typical properties; not to be construed as specifications.