



## Moplen EP548R

### Polypropylene, Impact Copolymer

#### Product Description

Moplen EP548R is a nucleated heterophasic copolymer with antistatic agent used for injection moulding applications. It exhibits a excellent stiffness / impact balance combined with a medium fluidity.

Moplen EP548R is applied in toys, furniture and thin-walled injection moulding items.

Moplen EP548R is suitable for food contact.

#### Product Characteristics

<b>Status</b>	Commercial: Active
<b>Test Method used</b>	ISO
<b>Availability</b>	Europe, Africa-Middle East
<b>Processing Method</b>	Injection Moulding
<b>Features</b>	Antistatic, Medium Flow, Good Impact Resistance , Nucleated, Good Stiffness
<b>Typical Customer Applications</b>	Furniture, Sports, Leisure and Toys, 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	21	g/10 min
Melt volume flow rate (230°C/2.16Kg)	ISO 1133	28	cm <sup>3</sup> /10min
<b>Mechanical</b>			
Tensile Modulus	ISO 527-1, -2	1550	MPa
Tensile Stress at Yield	ISO 527-1, -2	27	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)		125	kJ/m <sup>2</sup>
(-20 °C, Type 1, Edgewise)		100	kJ/m <sup>2</sup>
Charpy notched impact strength	ISO 179		
(23 °C, Type 1, Edgewise, Notch A)		6.0	kJ/m <sup>2</sup>
(0 °C, Type 1, Edgewise, Notch A)		4.5	kJ/m <sup>2</sup>
(-20 °C, Type 1, Edgewise, Notch A)		4.0	kJ/m <sup>2</sup>
Ductile/Brittle transition temperature	ISO 6603-2	-60	°C

#### Notes

Typical properties; not to be construed as specifications.

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Users should review the applicable Material Safety Data Sheet before handling the product.

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