



## Moplen EP340K

### Polypropylene, Impact Copolymer

#### Product Description

Moplen EP340K is a nucleated heterophasic copolymer suitable for injection moulding and thermoforming applications.

Moplen EP340K exhibits an outstanding low temperature impact performance and good stiffness combined with a good processability.

Moplen EP340K is designed for use in luggage, transport and cold storage crates, sports and leisure equipment, toys and typical consumer components which are subjected to impact and/or low temperature.

#### Product Characteristics

<b>Status</b>	Commercial: Active
<b>Test Method used</b>	ISO
<b>Availability</b>	Europe, Africa-Middle East
<b>Processing Methods</b>	Extrusion Thermoforming, Injection Molding
<b>Features</b>	Block Copolymer, High Impact Resistance , Nucleated, Good Processability, Good Stiffness
<b>Typical Customer Applications</b>	Crates, Luggage, 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	4	g/10 min
Melt volume flow rate (230°C/2.16Kg)	ISO 1133	5.4	cm <sup>3</sup> /10min
<b>Mechanical</b>			
Tensile Modulus	ISO 527-1, -2	1100	MPa
Tensile Stress at Yield	ISO 527-1, -2	20	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 (23 °C, Type 1, Edgewise)	ISO 179	No Break	kJ/m <sup>2</sup>
(0 °C, Type 1, Edgewise)		No Break	kJ/m <sup>2</sup>
(-20 °C, Type 1, Edgewise)		230	kJ/m <sup>2</sup>
Charpy notched impact strength (23 °C, Type 1, Edgewise, Notch A)	ISO 179	66	kJ/m <sup>2</sup>
(0 °C, Type 1, Edgewise, Notch A)		13	kJ/m <sup>2</sup>
(-20 °C, Type 1, Edgewise, Notch A)		7	kJ/m <sup>2</sup>
Ductile/Brittle transition temperature	ISO 6603-2	-57	°C
<b>Hardness</b>			
Ball indentation hardness (H 358/30)	ISO 2039-1	46	MPa
<b>Thermal</b>			
Heat deflection temperature B (0.45 MPa) Unannealed	ISO 75B-1, -2	85	°C
Vicat softening temperature (A50 (50°C/h 10N))	ISO 306	140	°C
(B50 (50°C/h 50N))		52	°C

#### Notes

Typical properties; not to be construed as specifications.