



## Moplen EP2838

### Polypropylene, Impact Copolymer

#### Product Description

**Moplen EP2838** is a heterophasic copolymer suitable for production of beverage closures using both compression and injection moulding technologies. This resin offers a good balance of stiffness and impact strength. The resin is nucleated and additivated with both slip and antistatic agent for easy opening of closures. Other injection moulding applications may include housewares and medium size containers.

#### Product Characteristics

<b>Status</b>	Development
<b>Test Method used</b>	ISO
<b>Availability</b>	Asia-Pacific, Africa-Middle East
<b>Processing Methods</b>	Compression Molding, Injection Molding
<b>Features</b>	Good Impact Resistance , Nucleated, High Slip, Good Stiffness
<b>Typical Customer Applications</b>	Caps & Closures, Housewares, 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	6.0	g/10 min
<b>Mechanical</b>			
Tensile Modulus	ISO 527-1, -2	1500	MPa
Tensile Stress at Yield	ISO 527-1, -2	30	MPa
Tensile Strain at Break	ISO 527-1, -2	> 50	%
Tensile Strain at Yield	ISO 527-1, -2	7	%
<b>Impact</b>			
Charpy notched impact strength	ISO 179		
(23°C, Type 1, Edgewise, Notch A)		5.5	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	64	MPa
<b>Thermal</b>			
Heat deflection temperature B (0.45 MPa) Unannealed	ISO 75B-1, -2	100	°C
Vicat softening temperature	ISO 306		
(B50 (50°C/h 50N))		80	°C
(A50 (50°C/h 10N))		151	°C

#### Notes

Typical properties; not to be construed as specifications.