

## Moplen EP641E

Block copolymer



### Product Description

Moplen EP641E is high stiffness & impact resistance copolymer designed for extrusion applications with smooth process ability and high mechanical properties. Moplen EP641E has very good balance with stiffness and impact resistance with high heat resistance. Moplen EP641E meets the FDA requirements in the Code of Federal Regulations in 21 CFR 177.1520 for food contact.

|                    |                                                                                |
|--------------------|--------------------------------------------------------------------------------|
| <b>Features</b>    | High stiffness/ High impact resistance/ High heat resistance/ Low gel property |
| <b>Market</b>      | Rigid Packaging, Consumer Products                                             |
| <b>Application</b> | Corrugated board/Rigid sheet, thermoforming &                                  |

| ASTM Data                     |               |          |             |
|-------------------------------|---------------|----------|-------------|
| Typical Properties            | Nominal Value | Units    | Test Method |
| Melt Flow Rate (230°C,2.16kg) | 1             | g/10 min | ASTM D1238L |
| Density                       | 0.9           | g/cm3    | ASTM D1505  |
| Flexural Modulus              | 16000         | kg/cm2   | ASTM D790   |
| Tensile Strength at Yeild     | 310           | kg/cm2   | ASTM D638   |
| Elongation at Yeild           | 9             | %        | ASTM D638   |
| Izod Impact Strength (23°C)   | NB            | kgcm/cm  | ASTM D256   |
| Izod Impact Strength (-20°C)  | 3             | kgcm/cm  | ASTM D256   |
| Rockwell Hardness             | 99            | R-Scale  | ASTM D785   |
| Vicat Softening Point         | 154           | °C       | ASTM D1525  |
| HDT (0.46 N/mm²)              | 126           | °C       | ASTM D648   |

1) The above values are typical property values for reference only not be construed as specification limits.

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