

Technical Data Sheet

Moplen HP743V



Polypropylene, Homopolymer

Product Description

LyondellBasell Australia's Polypropylene grade *Moplen* HP743V is a ultra high flow homopolymer with a modified molecular weight. *Moplen* HP743V has been formulated for use in thin walled packaging containers where rapid cycle times are required together with consistent performance, low organoleptic properties (odour and taint) and a balanced level of mechanical properties.

| | |
|--------------------------|--|
| Status | Commercial: Active |
| Availability | Asia-Pacific; Australia and New Zealand |
| Application | Containers; TWIM Food Containers |
| Market | Rigid Packaging |
| Processing Method | Compounding; Injection Molding |
| Attribute | Fast Cycle (Production); Good Moldability; High Flow; Homopolymer; Nucleated |

| Typical Properties | Nominal Value | Units | Test Method |
|---|---------------|-------------------|---------------|
| Physical | | | |
| Melt Flow Rate, (230 °C/2.16 kg) | 120 | g/10 min | ISO 1133-1 |
| Density, (23 °C, Method D) | 0.90 | g/cm ³ | ISO 1183-1 |
| Mechanical | | | |
| Flexural Modulus | 1850 | MPa | ISO 178 |
| Tensile Stress at Yield | 38 | MPa | ISO 527-1, -2 |
| Impact | | | |
| Notched Izod Impact Strength, (23 °C) | 2.0 | kJ/m ² | ISO 180/1A |
| Hardness | | | |
| Shore Hardness, (Shore D) | 76 | | ISO 868 |
| Thermal | | | |
| Vicat Softening Temperature | 150 | °C | ISO 306 |
| Heat Deflection Temperature B, (0.45 MPa, Unannealed) | 102 | °C | ISO 75B-1, -2 |