

New Developmental PP for Thin-Wall Injection Molding

Moplen HP6119

Product design

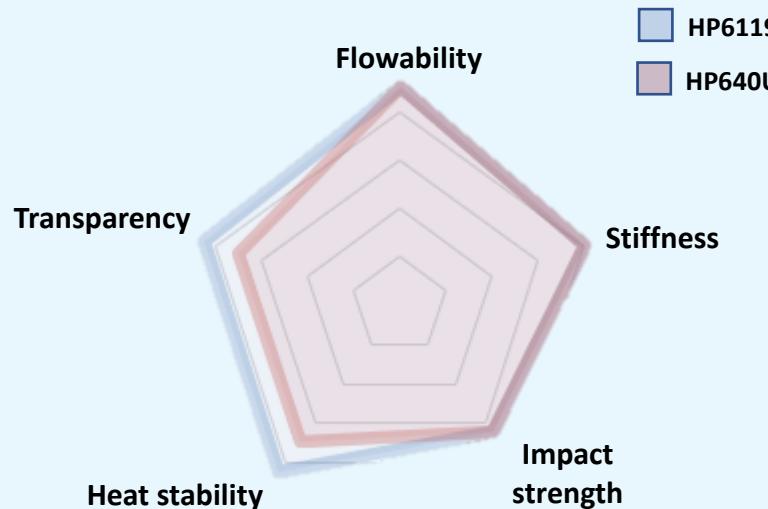
Moplen HP6119 is Polypropylene Homopolymer, designed with additive package offering new innovation for injection molding application.

Key Driven Force

- **Transparency improvement**
 - High clarity and glossiness
 - Shelf attractiveness
- **Heat stability/temperature resistance improvement**
 - To solve the yellowish color problem after high injection temperature
- **Excellent stiffness & Impact balance**
 - Good shape stability
 - Good impact resistance
- **Productivity improvement**
 - Fast crystallization leading to shorter cycle time



Moplen HP6119 High flow PP with Good Transparency & Heat Stability for TWIM



KEY FEATURES

- Good flow ability for easy processing
- Fast crystallization enabling shorter cycle time
- Excellent transparency and gloss
- Good temperature resistance
- Good stiffness/impact balance
- Good dimensional stability



Properties	Method	HOMO PP for TWIM	
		HP640U	HP6119
MFR @ 2.16 kg (g/10min)	ASTM D1238	75	75
Flexural Modulus (MPa)	ASTM D790	1750	1750
Izod Impact Strength (J/m)	ASTM D256	26	26
HDT @455 Kpa (°C)	ASTM D648	117	117
Haze at thickness 0.4 mm (%)	ASTM D1003	13	10
YI after heat aging	HMC	2.7	2.4

Applications

- Drinking cups
- Food containers
- Thin wall injection products
- High speed injection molding parts

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Success story & Positive feedback from customer trial

- Higher transparency than HP640U and competitor resin
- Less yellowish after injection process at high temperature
- Better temperature resistance than HP640U
- Faster crystallization than competitor resin leading to shorter cycle time
- Broader processing window than competitor resin

HP6119 shows better product performance than HP640U