

PP

PP T5015M

POLYPROPYLENE RANDOM COPOLYMER (PPR) — THERMOFORMING SHEET GRADE

This resin is an ultra-high-transparency random copolymer polypropylene developed for pressure thermoforming and sheet extrusion. It combines good tensile properties with a balanced stiffness-toughness ratio and strong melt strength (sag resistance) during sheet thermoforming.

Typical Application

- Pressure thermoforming
- Sheet extrusion
- Transparent thermoformed packaging

Product Characteristics

- Ultra-high transparency
- Balanced stiffness-toughness ratio
- Strong melt strength / sag resistance during thermoforming
- Good tensile properties

Physical Properties

Properties	Test Method	Typical Value	Unit
Melt Flow Rate (230°C/2.16 kg)		3.3	g/10 min
Ash Content		0.017	%
Yellowness Index		-2.5	
Tensile Yield Stress		33.6	MPa
Flexural Modulus		1389	MPa
Charpy Notched Impact Strength (23°C)		5.2	kJ/m ²
Charpy Notched Impact Strength (-20°C)		1.3	kJ/m ²
Haze		10.0	%
Heat Deflection Temperature		88	°C
Molding Shrinkage (flow direction)		1.3	%
Molding Shrinkage (transverse direction)		1.3	%

1. The nominal properties reported herein are typical of the product and do not reflect normal testing variance; they should not be used for specification purposes.

2. Typical values per a published third-party comparative data table rather than a per-grade producer certificate; grade-specific certificate of analysis supplied per lot at order.

3. The listed melt flow rate (3.3 g/10 min) and tensile yield stress (33.6 MPa) are consistent with the nominal 3 g/10 min grade designation and ~35 MPa tensile value from the producer's offer-sheet data.