

PP

PP C5608

POLYPROPYLENE TERPOLYMER CAST FILM GRADE (CPP)

This is a terpolymer polypropylene resin used in the heat-seal layer of cast polypropylene (CPP) film. The films produced from this resin are homogeneous in thickness with highly balanced properties, and are widely used as the inner heat-sealing layer of laminated films, films for vacuum aluminum metallizing, and films for high-temperature steam and boiling applications.

Typical Application

- CPP film heat-seal layer
- Laminated packaging film
- Vacuum-metallized film
- Retort/boil-in-bag packaging film

Product Characteristics

- Homogeneous thickness distribution
- Highly balanced mechanical properties
- Low fisheye count for consistent film clarity
- Low haze

Physical Properties

Properties	Test Method	Typical Value	Unit
Melt Mass-Flow Rate (230°C/2.16kg)	GB/T 3682.1-2018 (ASTM D1238 equivalent)	8.0	g/10 min
Tensile Stress at Yield	GB/T 1040.2-2006 (ASTM D638 equivalent)	21.7	MPa
Nominal Strain at Tensile Fracture	GB/T 1040.2-2006 (ASTM D638 equivalent)	503	%
Flexural Modulus	GB/T 9341-2008 (ASTM D790 equivalent)	628	MPa
Vicat Softening Temperature	GB/T 1633-2000 (ASTM D1525 equivalent)	115	°C
Melting Temperature	GB/T 19466.3-2004 (ASTM D3418 equivalent)	135	°C
Fisheye (≥0.6mm)	Q/SH 3155014-2018 Appendix A	0.3	count/1520 cm ²
Fisheye (0.3mm-0.6mm)	Q/SH 3155014-2018 Appendix A	2.3	count/1520 cm ²
Fog (Haze)	Q/SH 3155014-2018 Appendix B	2.5	%
Yellowness Index	HG/T 3862-2006	-4.5	

Processing Guidelines

Film-forming melt temperature should be adjusted to keep the low Vicat softening/melting characteristics of this terpolymer in mind, enabling a wide heat-sealing window and low initial heat-sealing temperature relative to homopolymer or random-copolymer CPP resins.

1. Values shown are drawn from a per-lot certificate of analysis and are representative of the grade's typical, not-warranted performance range.

2. 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.