

Capilene CP71AV

New Capilene CP71AV polypropylene resin provides a unique combination of mechanical and optical properties with outstanding processability for TWIM food packaging and consumer applications



Carmel Olefins new Capilene CP71AV polypropylene (PP) resin was designed to meet the most demanding of customers' requirements for rigid packaging and consumer goods, focusing on Thin Wall Injection Molding (TWIM) applications.

Engineered using an innovative and unique technology, Capilene CP71AV is able to bridge the gap between PP Random and Impact Copolymers, and offers the best of the two families: good transparency combined with good impact/stiffness balance. Besides, Capilene CP71AV has an exceptional stress-whitening (blush) resistance and high gloss, making it a preferable choice for demanding applications where excellent aesthetics is desired.

Capilene CP71AV is characterized by very good flowability and can be used for TWIM items with wall thickness as low as 0.4mm.

Applications

- Food packaging
- TWIM containers
- Clear storage boxes
- Tool boxes and organizers
- Toys
- Home appliances

Key features

- Excellent flowability
- High impact
- High transparency and gloss
- Stress whitening resistance
- Good color-ability (brighter colors)
- Complies with food contact regulations

	Method	Capilene QW80AV PP Random copo	Capilene CU71A PP Specialty	Capilene CP71AV PP Specialty	Capilene SW75AV PP Impact copo
MFR (g/10min)	ISO 1133	70	35	55	65
Spiral Flow ¹ (inch)	Internal	63	60	63	62
Flexural Modulus (Mpa)	ISO 178	1050	950	950	1150
Izod Notched 23°C (KJ/m ²)	ISO 180	4	10	9	8
Izod Notched 0°C (KJ/m ²)	ISO 180	2	4	7	7
Instrumented FWI ² 23°C (KJ/m ²)	Internal	160	150	160	120
Instrumented FWI ² 0°C (KJ/m ²)	Internal	3	115	135	130
Haze on 1mm plaque (%)	ASTM D1003	10	30	30	100 (Opaque)
Haze on 0.5mm TWIM container (%)	Internal	10	14	14	100
Gloss (45°)	ASTM D2457	84	70	70	50
Stress whitening diameter (mm)	Internal	5	10	10	45

1) Melt temperature 215°C, mold temperature 25°C, 1000bar

2) Instrumented Falling Weight Impact, 2mm disc

For more information please contact: techserv@caol.co.il or visit our website: www.Carmel-Olefins.co.il

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