



# ENTE<sup>C</sup>TEC

## BRAND OVERVIEW






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# HYPRO<sup>®</sup>

Entec Polymers offers an array of both branded prime and generic prime Polypropylene (PP) options in our commodity polymer portfolio. It has the lowest density among commodity plastics and is one of the most used polymers today due to its versatility in rigid and flexible applications. Our HYPRO® branded Polypropylene is an excellent option for customers seeking cost-effective, top-quality solutions for rigid and flexible applications.

Type	Grade	Melt Flow g/10 min	Tensile Strength @ yield psi	Elongation @ yield %	Flex Modulus psi	Notched Izod ft-lb/in	HDT @ 66 psi °F	Additive Package
Homopolymer	PP-HP 12	12	4930	9	240,000	0.6	221	GP
	PP-HP 12NS	12	5510	8	262,000	0.6	241	N,A
	PP-HP 20NS	21	5660	8	280,000	0.6	268	N,A
	PP-HP 35	35	4930	10	225,000	0.5	210	AG
	PP-HP 35NS	35	5700	8	250,000	0.6	261	N,A
Impact Copolymer	PP-CP 0.5/10	0.5	4060	-	195,000	>10	190	GP
	PP-CP 10/10	10	3050	6	140,000	>10	185	LTHA
	PP-CP 20/10	20	3480	6	175,000	>10	221	N,A
	PP-CP 20/2	20	3480	7	168,000	>2.0	203	N,A
	PP-CP 35/2	35	3340	6	170,000	>2.0	217	N,A
	PP-CP 50/2	50	3700	6	170,000	>2.0	-	N,A
	PP-CP 8/6	8	3480	7	155,000	>6.0	178	LTHA
Random Copolymer	PP-RP 12/1.5C	12	4060	11	155,000	2.8	165	A,C
	PP-RP 35/1.5C	35	4300	13	169,000	1.0	-	A,C
	PP-RP 55/1.2C	55	3900	12	145,000	1.2	163	A,C

LEGEND: C = Clarified, GP = General Purpose, A = Anti-Stat, N = Nucleated, LTHA = Long Term Heat Stabilized, AG = Anti-Gas Fading

CHARACTERISTIC	HOMOPOLYMER PP	IMPACT COPOLYMER	RANDOM COPOLYMER
 Contact Clarity	Yes	No	Yes
 "See Through" Clarity	No	No	Yes
 Cold Temperature Impact	No	Yes	Limited
 Heat Resistance	Yes	Limited	No
 Stiffness	High +++	Moderate ++	Low +

## PROCESSING CONDITIONS

NOMINAL MELT FLOW RATE		g/10min	2 - 10	10 - 20	35 - 50
MELT TEMPERATURE		°F	450 +/-5	425 +/-5	400 +/-5
ZONE SETTINGS	Rear	°F	400 +/-10	390 +/-10	375 +/-10
	Middle	°F	425 +/-10	410 +/-10	385 +/-10
	Front	°F	450 +/-10	425 +/-10	390 +/-10
	Nozzle	°F	450 +/-10	425 +/-10	400 +/-10
	Mold	°F	60 - 120		