



HYPRO® PP-HP 35

Entec Polymers - Polypropylene Homopolymer

Tuesday, November 5, 2019

General Information

Product Description

This product is intended for thin-wall injection molding applications as well as low denier filament yarns, extrusion coating and specialty cast embossed film.

General

Material Status	• Commercial: Active
Availability	• North America
Features	• Homopolymer
Uses	• Cast Film • Filaments • Yarn
RoHS Compliance	• RoHS Compliant
Forms	• Pellets
Processing Method	• Cast Film • Extrusion Coating

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	0.900	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (230°C/2.16 kg)	35	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.012	in/in	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield, 73°F)	4930	psi	ASTM D638
Tensile Elongation (Yield, 73°F)	10	%	ASTM D638
Flexural Modulus - 1% Secant ² (73°F)	225000	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F, 0.125 in)	0.50	ft-lb/in	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	210	°F	ASTM D648

Processing Information

Injection	Nominal Value	Unit
Rear Temperature	360 to 420	°F
Middle Temperature	380 to 460	°F
Front Temperature	400 to 480	°F
Nozzle Temperature	380 to 460	°F
Processing (Melt) Temp	400 to 480	°F
Mold Temperature	70 to 120	°F
Injection Pressure	500 to 1500	psi

Notes

¹ Typical properties: these are not to be construed as specifications.

² 0.051 in/min