HYPRO® PP-CP 20/2

Entec Polymers - Polypropylene Impact Copolymer

Tuesday, November 5, 2019

General Information

Product Description

This product is intended for general purpose injection molding applications including automotive and consumer products, large buckets & pails where toughness and cold temperature impact are required.

General		
Material Status	• Commercial: Active	
Availability	• North America	
Features	• General Purpose • Good Toughness	• Impact Copolymer • Low Temperature Impact Resistance
Uses	• Automotive Applications • Consumer Applications	• General Purpose • Pails
RoHS Compliance	• RoHS Compliant	
Forms	• Pellets	
Processing Method	• Injection Molding	

ASTM & ISO Properties [1]

Physical	Nominal Value	Unit	Test Method
Density	0.900	g/cm³	ASTM D1505
Melt Mass-Flow Rate (230°C/2.16 kg)	20	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.013 to 0.014	in/in	ASTM D955
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength (Yield, 73°F)	3480	psi	ASTM D638
Tensile Elongation (Yield, 73°F)	7.0	%	ASTM D638
Flexural Modulus - 1% Secant [2] (73°F)	168000	psi	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (73°F, 0.125 in)	> 2.6	ft·lb/in	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (66 psi, Unannealed)	203	°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