



## HYRIL GP355AS

Entec Polymers - Styrene Acrylonitrile

Tuesday, November 5, 2019

### General Information

#### General

Material Status	• Commercial: Active
Availability	• North America
Features	• Copolymer
Automotive Specifications	• DELPHI M-9565-9 Color: Blue-Transparent
Forms	• Pellets
Processing Method	• Extrusion

### ASTM & ISO Properties <sup>1</sup>

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.07		ASTM D792
Melt Mass-Flow Rate (230°C/3.8 kg)	8.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow	3.0E-3 to 7.0E-3	in/in	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield, 73°F)	10400	psi	ASTM D638
Tensile Elongation (Break, 73°F)	2.5	%	ASTM D638
Flexural Modulus (73°F)	561000	psi	ASTM D790
Flexural Strength (Yield, 73°F)	17900	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F, 0.125 in)	0.30	ft-lb/in	ASTM D256
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	125		ASTM D785
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	206	°F	ASTM D648
Deflection Temperature Under Load 264 psi, Unannealed	186	°F	ASTM D648
Vicat Softening Temperature	227	°F	ASTM D1525 <sup>2</sup>
CLTE - Flow	3.3E-5	in/in/°F	ASTM D696
Optical	Nominal Value	Unit	Test Method
Transmittance	89.0	%	ASTM D1003
Haze	0.600	%	ASTM D1003

### Processing Information

Extrusion	Nominal Value	Unit
Drying Temperature	160 to 180	°F
Drying Time	2.0 to 4.0	hr
Suggested Max Moisture	0.60	%
Cylinder Zone 1 Temp.	323 to 375	°F
Cylinder Zone 3 Temp.	400 to 450	°F
Die Temperature	450 to 475	°F
Take-Off Roll	50 to 190	°F

#### Extrusion Notes

Feed Zone: Water Cooled

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### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.

<sup>2</sup> Rate B (120°C/h), Loading 1 (10 N)

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