



# HYRIL GP355AS

Entec Polymers - Styrene Acrylonitrile

Tuesday, November 5, 2019

## General Information

### General

Material Status	<ul style="list-style-type: none"> <li>Commercial: Active</li> </ul>
Availability	<ul style="list-style-type: none"> <li>North America</li> </ul>
Features	<ul style="list-style-type: none"> <li>Copolymer</li> </ul>
Automotive Specifications	<ul style="list-style-type: none"> <li>DELPHI M-9565-9 Color: Blue-Transparent</li> </ul>
Forms	<ul style="list-style-type: none"> <li>Pellets</li> </ul>
Processing Method	<ul style="list-style-type: none"> <li>Extrusion</li> </ul>

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

	Nominal Value	Unit	Test Method
<b>Physical</b>			
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
<b>Mechanical</b>			
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
<b>Impact</b>			
Notched Izod Impact (73°F, 0.125 in)	0.30	ft·lb/in	ASTM D256
<b>Hardness</b>			
Rockwell Hardness (R-Scale)	125		ASTM D785
<b>Thermal</b>			
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
<b>Optical</b>			
Transmittance	89.0	%	ASTM D1003
Haze	0.600	%	ASTM D1003

## Processing Information

	Nominal Value	Unit
<b>Extrusion</b>		
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)