

General Information

Product Description

Provista copolymer is a resin specifically developed for extrusion into profiles where aesthetics like high clarity and gloss, coupled with design flexibility drive demand. Compared to commonly used materials, Provista copolymer can often run on most standard processing equipment at increased speeds. An extremely high melt strength makes the resin an excellent choice when extruding profiles into complicated shapes. This product is certified to ANSI/NSF Standard 51.

Key Attributes:

- Sparkling clarity and high gloss
- Toughness with flexibility
- Ease of processing
- Excellent chemical resistance
- Meets FDA regulations for food contact

General

Material Status	<ul style="list-style-type: none"> • Commercial: Active
Availability	<ul style="list-style-type: none"> • Africa • Asia • Australia • Europe • Latin America • Middle East • North America • Pacific Rim • South America
Test Standards Available	<ul style="list-style-type: none"> • ASTM
Features	<ul style="list-style-type: none"> • Chemical Resistance, Good • Clarity, High • Flexibility, Good • Food Contact Acceptable • Gloss, High • Melt Strength, Good • Processability, Good • Toughness, Good
Uses	<ul style="list-style-type: none"> • Cosmetics • Furniture • Household Goods • Medical Applications • Packaging • Packaging, Food • Tubing
Agency Ratings	<ul style="list-style-type: none"> • FDA Food Contact, Unspecified Rating • NSF 51
Forms	<ul style="list-style-type: none"> • Pellets
Processing Method	<ul style="list-style-type: none"> • Extrusion, Profile

ASTM and ISO Properties ¹

Physical	Nominal Value Unit	Test Method
Density -Specific Gravity	1.27 sp gr 23/23°C	ASTM D792
Mechanical	Nominal Value Unit	Test Method
Tensile Strength @ Yield	7250 psi	ASTM D638
Tensile Strength @ Break	4060 psi	ASTM D638
Tensile Elongation @ Yld	4.0 %	ASTM D638
Tensile Elongation @ Brk	110 %	ASTM D638
Flexural Modulus	305000 psi	ASTM D790
Flexural Strength	9860 psi	ASTM D790
Impact	Nominal Value Unit	Test Method
Notched Izod Impact		ASTM D256
(-40 °F)	0.993 ft-lb/in	
(73 °F)	1.76 ft-lb/in	
Unnotched Izod Impact		ASTM D256
(-40 °F)	No Break ft-lb/in	
(73 °F)	No Break ft-lb/in	

Instrumented Dart Impact (-40 °F) (73 °F)	Energy at Peak Load: 310 in-lb Energy at Peak Load: 319 in-lb	ASTM D3763
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Hardness	Nominal Value Unit	Test Method
Rockwell Hardness (R-Scale)	108	ASTM D785

Thermal	Nominal Value Unit	Test Method
DTUL @66psi - Unannealed	158 °F	ASTM D648
DTUL @264psi - Unannealed	144 °F	ASTM D648
Vicat Softening Point (Loading 1 (10 N))	181 °F	ASTM D1525

Optical	Nominal Value Unit	Test Method
Gloss (60°)	152	ASTM D2457
Transmittance	87.0 %	ASTM D1003
Haze	0.60 %	ASTM D1003

Additional Properties
 Regular Transmittance, ASTM D1003: 87%
 Total Transmittance, ASTM D1003: 90%

Processing Information

Injection	Nominal Value Unit
Drying Temperature	160 °F
Drying Time	6.0 hr
Processing (Melt) Temp	480 to 520 °F
Mold Temperature	60.8 to 100 °F

Notes

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

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