



ASTUTE™ QHsK908-A Resin

Plastomer PE Film Resin

Property	ASTM ⁽¹⁾	Units	Typical Values ⁽²⁾	
Melt Index ⁽³⁾		D 1238	0.85 g/10 min	
Density		D 792	0.908 g/cm ³	
			METRIC UNITS	ENGLISH UNITS
Film Properties⁽⁴⁾				
Thickness			25 µm	1.0 mil
Tear Strength	MD	D 1922	192 g	
		TD	463 g	
Dart Drop Impact, F ₅₀		D 1709/A	564 g	
Low Friction Puncture ⁽⁵⁾			133 J/mm	30 in-lb/mil
Tensile Strength	MD	D 882	47 MPa	6,800 psi
		TD	43 MPa	6,300 psi
Yield Strength	MD	D 882	6.4 MPa	900 psi
		TD	5.8 MPa	800 psi
Elongation	MD	D 882	480 %	
		TD	829 %	
1% Secant Modulus	MD	D 882	129 MPa	18,700 psi
		TD	132 MPa	19,100 psi
Haze		D 1003	7 %	
Gloss @ 45°		D 2457	69	
Seal Initiation Temperature ^(5,6,7)			83 °C	182 °F
Vicat Softening Point		D 1525	91 °C	196 °F
OTR		D 3985	14,200 cm ³ /m ² /day	916 cm ³ /100in ² /day

Melt Index 0.85
Density 0.908

Features

- Broad seal and hot tack window
- Outstanding puncture resistance
- Excellent optical properties

Additives

- Processing antioxidant

Applications

- High toughness food and consumer packaging
- All polyethylene recyclable packaging
- Hot fill liquid packaging
- Plastomer blend replacement

(1) Properties designated have been determined using methods which are in accordance with, or substantially in accordance with, the specified testing standards.

(2) Typical Values represent average laboratory values and are intended as guides only, not as specifications.

(3) Condition 190°C/2.16 kg.

(4) Film properties are typical of blown film extruded on a 2.5" extruder with 4" die and 35-mil die gap at a blow up ratio of 2.5:1, but are dependent upon operating conditions.

(5) NOVA Chemicals test method.

(6) The seal initiation temperature is the temperature at which a 2-mil film achieves a seal strength of 8.8N/25.4mm.

(7) Tested at 0.5s dwell, 0.27 N/mm² bar pressure, 305 mm/min pull speed.



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Availability

ASTUTE QHsK908-A polyethylene resins are available in bulk hopper cars, hopper trucks, boxes, sea bulk containers, or bags. The product type and batch number are clearly marked on each container. Contact the NOVA Chemicals sales office nearest you for availability in your area.

Storage/Handling

ASTUTE QHsK908-A resin should be stored in a clean, dry place at ambient temperatures. Prolonged or improper storage can result in deterioration of product properties. Care should be taken when handling and transferring product to prevent foreign matter contamination. The NOVA Chemicals Safety Data Sheet (SDS) contains important safety information and should be reviewed before using the

Processing Conditions

Comprehensive assistance with processing conditions and technology is available from NOVA Chemicals Technical Service at (403) 291-8444.

Food Packaging Status

United States: ASTUTE QHsK908-A resin complies with the U.S. Federal Food, Drug, and Cosmetic Act as a food contact substance (FCS) as a result of a premarket notification to the FDA with an effective date of January 24, 2023, Food Contact Notification (FCN) 2251. This FCN permits use of this product in articles or components of articles in contact with all food types, except for infant formula and human milk, under Conditions of Use A–H, 21 CFR 176.170(c), Table 2.

Other Countries: For regulatory compliance information for other countries, please contact your nearest NOVA Chemicals office.

Environmental

NOVA Chemicals polyethylene resins are biologically and chemically inert, but improper disposal may present an ingestion hazard to wildlife. Where recycling of NOVA Chemicals' polyethylene resins is not possible, disposal to landfill or incineration in accordance with all applicable government laws and regulations is recommended. Please contact NOVA Chemicals Technical Service for further information on recycling and disposal of NOVA Chemicals resins.



is the SPI resin code developed for low density and linear low density polyethylene to identify material type for sorting and recycling purposes.

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