

Chevron Phillips HiD® 9646T HDPE High Molecular Weight Sheeting Resin (discontinued **)

Category : Polymer , Thermoplastic , Polyethylene (PE) , HDPE

Material Notes:

Resin Type: Linear Copolymer; ASTM D 4976 Classification: PE 235, A 56606 Applications: Sheeting, Thermoforming, Profile Extrusion Data provided by Chevron Chemical.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Chevron-Phillips-HiD-9646T-HDPE-High-Molecular-Weight-Sheeting-Resin-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	0.9455 g/cc	0.03416 lb/in ³	ASTM D1505
Environmental Stress Crack Resistance	>= 1500 hour	>= 1500 hour	F _{>50} , Cond. B.; ASTM D1693
	@Temperature 50.0 °C	@Temperature 122 °F	
	>= 1500 hour	>= 1500 hour	F _{>50} Cond. C; ASTM D 1693
	@Temperature 100 °C	@Temperature 212 °F	
High Load Melt Index	9.0 g/10 min	9.0 g/10 min	ASTM D1238
	@Load 21.6 kg, Temperature 190 °C	@Load 47.6 lb, Temperature 374 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	66	66	ASTM D2240
Tensile Strength, Ultimate	34.0 MPa	4930 psi	ASTM D638
Tensile Strength, Yield	22.0 MPa	3190 psi	ASTM D638
Elongation at Break	>= 800 %	>= 800 %	ASTM D638
Flexural Modulus	0.900 GPa	131 ksi	3 pt. secant. ASTM D790

Thermal Properties	Metric	English	Comments
Vicat Softening Point	126 °C	259 °F	ASTM D1525
Brittleness Temperature	<= -59.0 °C	<= -74.2 °F	ASTM D746

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