

Dow HDPE 05862N High Density Polyethylene

Category : Polymer , Film , Thermoplastic , Polyethylene (PE) , HDPE , High Density Polyethylene (HDPE), Injection Molded

Material Notes:

Film properties below based on a film thickness of 25 µm. Data provided by Dow Chemical.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Dow-HDPE-05862N-High-Density-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	0.963 g/cc	0.0348 lb/in ³	
Thickness	25.0 microns	0.984 mil	
Melt Flow	5.0 g/10 min @Load 2.16 kg	5.0 g/10 min @Load 4.76 lb	Melt flow ratio I10/I2 is 8.1.

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	27.5 MPa	3990 psi	
Film Tensile Strength at Yield, TD	28.3 MPa	4100 psi	
Film Elongation at Break, MD	595 %	595 %	
Film Elongation at Break, TD	650 %	650 %	
Secant Modulus, MD	0.472 GPa	68.5 ksi	Film value
Secant Modulus, TD	0.572 GPa	83.0 ksi	Film value
Elmendorf Tear Strength MD	40 g	40 g	
Elmendorf Tear Strength TD	118 g	118 g	
Elmendorf Tear Strength, MD	1.60 g/micron	40.6 g/mil	
Elmendorf Tear Strength, TD	4.70 g/micron	119 g/mil	
Dart Drop	1.60 g/micron	40.6 g/mil	
Film Tensile Strength at Break, MD	35.6 MPa	5160 psi	
Film Tensile Strength at Break, TD	28.0 MPa	4060 psi	

Thermal Properties	Metric	English	Comments
Vicat Softening Point	130 °C	266 °F	

Optical Properties	Metric	English	Comments
Haze	6.0 %	6.0 %	
Gloss	85 %	85 %	45°

Processing Properties	Metric	English	Comments
Processing Temperature	274 °C	525 °F	Film extrusion temperature

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