



Polyintec® APC850-MI

High-Density Polyethylene for Injection Molding

Product Description:

Polyintec® APC850-MI is a high-density polyethylene (HDPE) copolymer designed for general-purpose injection molding applications. It features a narrow molecular weight distribution, providing a good balance of processability and end-use performance. This material meets FDA requirements (21CFR 177.1520) for food contact applications.

Suggested Applications:

General purpose injection molding, applications requiring good processability and end-use properties.

Nominal Physical Properties:

PROPERTY	ASTM TEST METHOD	UNIT	VALUE
Melt Index	D1238	g/10 min	8.0
Density	D4883	g/cc	0.953
Tensile Strength @ Yield	D638	MPa (psi)	28 (4000)
Tensile Strength @ Break	D638	MPa (psi)	17.9(2600)
Flexural Modulus (Tangent)	D790A	MPa (psi)	1186 (172,000)
Notched Izod Impact Strength @ 23°C	D256	ft-lbf/in (kJ/m ²)	0.7(3.7)
Hardness (Shore D)	D2240	-	62
Vicat Softening Point	D1525	°C (°F)	125 (257)
Brittleness Temperature	D746	°C (°F)	<-70 (<-94)

Important Note:

The properties listed above are typical values obtained under laboratory conditions and are not intended to be used as specifications. Users should perform their tests to determine the suitability of this product for their particular purposes. The information is reliable to the best of our knowledge, but no warranties are implied.