Formosa Plastics®

Formolene® HDPE

Formolene® HB5502Z

High Density Polyethylene (HDPE) Resin Contains a Mold Release Additive for Injection Blow Molding Applications

Formolene® HB5502Z eliminates the need for including a mold release agent at each machine, by incorporating zinc stearate with the resin. This incorporation assures uniform consistent releasing properties. It may be used as an injection blow molding resin.

Formolene® HB5502Z meets all requirements of the U.S. Food and Drug Administration as specified in 21 CFR 177.1520, covering safe use of polyolefin articles intended for direct food contact.

Suggested Applications:

Injection Blow Molding…

Pharmaceutical Packaging

Nominal Physical Properties:

PROPERTY*	ASTM TEST METHOD	English UNIT	English VALUE	SI UNIT	SI VALUE
Density	D1505	g/cc	0.955	g/cc	0.955
Melt Index, Condition E, 190ºC/2.16 kg	D1238	g/10 min	0.35	g/10 min	0.35
Environmental Stress Crack Resistance (ESCR)					
Condition B, F_{50} (100% Igepal)	D1693	h	35	h	35
Tensile Yield Strength 2” (50 mm) per min.	D638 Type IV	psi.	4000	MPa	28
Ultimate Elongation 2” (50 mm) per min.	D638 Type IV	%	>600	%	>600
Brittleness Temperature	D746	°F	<-180	°C	<-118
Flexural Modulus	D790	psi.	200,000	MPa	1378

* Physical properties reported herein were determined on compression molded specimens prepared in accordance with Procedure C of ASTM D4703, Annex A1.

The nominal properties reported herein are typical of the product but do not reflect normal testing variance and therefore should not be used for specification purposes.

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