

## TechResin<sup>®</sup> BF5502

### **High Density Polyethylene (HDPE) Resin**

### **Contains a Synthetic Additive for Food Grade Blow Molding Applications**

TechResin<sup>®</sup> BF5502 HDPE resin is designed for applications requiring excellent stiffness and stress crack resistance properties. It contains a synthetic antistatic additive which enables it to be used for food contact applications. It may be used as a blow molding resin or sheet extrusion thermoforming resin.

TechResin<sup>®</sup> BF5502 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:**

*Blow Molding...*

Pharmaceuticals

Food Packaging

Industrial Chemicals

Industrial Parts

*Molding or Forming...*

Industrial Parts

Pallets

#### **Nominal Physical Properties:**

PROPERTY*	ASTM TEST METHOD	ENGLISH		SI	
		Unit	Value	Unit	Value
Density	D1505	g/cc	0.954	g/cc	0.954
Melt Index, Condition E, 190°C/2.16 kg	D1238	g/10 min.	0.35	g/10 min.	0.35
Environmental Stress Crack Resistance (ESCR) Condition B, F <sub>50</sub> (100% Igepal)	D1693	h	30	h	30
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	<-120	°C	<-84
Flexural Modulus	D790	psi.	150,000	MPa	1035

\* Physical properties reported herein were determined on compression molded specimens prepared in accordance with Procedure C of ASTM D1928.

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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