

## TechResin<sup>®</sup> B3949

### **High Density Polyethylene (HDPE) Resin Designed for High ESCR Blow Molding Applications**

TechResin<sup>®</sup> B3949 is a high performance copolymer that is designed for the most demanding blow molding applications. It is also utilized in many sheeting applications. This resin has exceptional stress crack resistance, excellent surface appearance, good melt strength, and good processability.

TechResin<sup>®</sup> B3949 meets all the requirements of the U.S. Food and Drug Administration as specified in 21 CFR 177.1520 for food packaging at temperatures not exceeding 212°F (100°C).

#### **Suggested Applications:**

Fuel Tanks	Garbage Cans
Seating	Large Industrial Containers
Sheet	

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

PROPERTY*	ASTM TEST METHOD	ENGLISH		SI	
		Unit	Value	Unit	Value
Density	D1505	g/cc	0.949	g/cc	0.949
Melt Index, Condition E, 190°C/2.16 kg	D1238	g/10 min.	0.30	g/10 min.	0.30
Environmental Stress Crack Resistance (ESCR) Condition B (100% Igepal), F <sub>50</sub>	D1693	h	500	h	500
Tensile Yield Strength, 2" (50 mm) per min.	D638 Type IV	psi.	3600	MPa	25
Ultimate Elongation, 2" (50 mm) per min.	D638 Type IV	%	>600	%	>600
Brittleness Temperature	D746	°F	<-180	°C	<-118

\* 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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