

BR52-22-206

POLYETHYLENE COPOLYMER

**TECHNICAL
DATASHEET**

Product Description

BR52-22-206 is an HDPE grade for use in small part blow molded containers containing post-consumer recyclate (PCR). It is designed to retain high top load strength and good ESCR at high PCR loading levels. This product meets the U.S. Food and Drug Administration requirements of 21 CFR 177.1520.¹

Typical Properties²

Property	English Units	SI Units	ASTM Method
Resin Properties			
Density		0.952 g/cc	D4883
Melt Index (190°C/2.16 kg)		0.22 g/10 min	D1238
Physical Properties³			
Tensile Strength @ Yield	3,800 psi	26 MPa	D638
Tensile Elongation @ Break	>700 %	>700 %	D638
Flexural Modulus (2% Secant)	136,000 psi	940 MPa	D790A
Notched Izod Impact Strength	3.0 ft-lb _f /in	161 J/m	D256
Vicat Softening Point	257 °F	125 °C	D1525
Deflection Temperature			D648
@ 66 psi (455 kPa)	156 °F	69 °C	
@ 264 psi (1,820 kPa)	113 °F	45 °C	
Brittleness Temperature	<-103 °F	<-75 °C	D746
ESCR, Condition B, 100% Igepal, F50	200 hrs	200 hrs	D1693
Properties in blends with 50% PE Homopolymer PCR			
Density		0.955 g/cc	D4883
Melt Index (190°C/2.16 kg)		0.3 g/10 min	D1238
ESCR, Condition B, 100% Igepal, F50	40 hrs	40 hrs	D1693