Manufacturer website: https://www.ineos.com/businesses/ineos-olefins-polymers/

K44-11-128 Polyethylene Copolymer

K44-11-128 is a high molecular weight, high density polyethylene copolymer for large part blow molding. It combines excellent processability and outstanding physical performance, particularly environmental stress crack resistance (ESCR) and impact properties.
This resin meets the Food and Drug Administration requirements of 21CFR 177.1520.

Typical Properties[1]

	Values		ASTM
	English Units	SI Units	Method
Resin			
Density	–	0.947 g/cc	**D4883**
Melt Index 190°C/ 21.6 kg	–	12.0 g/10 min	**D1238**
Compression Molded Samples			
Tensile Strength (2 in/min)			**D638**
@ Yield	3,500 psi	24.1 MPa	
@ Break	5,500 psi	37.9 MPa	
Elongation (2 in/min)			**D638**
@ Yield	10.5 %	10.5 %	
@ Break	900 %	900 %	
Flexural Modulus			**D790A**
Tangent Method	164,000 psi	1130 MPa	
2% Secant Method	122,000 psi	841 MPa	
Notched Izod Impact Strength	5.8 ft-lbf/in	30.3 kJ/m^2	**D256**
Hardness (Shore D)	63	63	**D2240**
Vicat Softening Point	253 F	123 C	**D1525**
Brittleness Temperature	<-103 F	<-75 C	**D746**
Heat Deflection Temperature			**D648**
@ 66 psi (455 kPa)	149 F	65 C	
@ 264 psi (1,820 kPa)	113 F	45 C	
Environmental Stress Crack Resistance			**D1693**
Condition B, 100% Igepal, F50 (hrs.)	>2,000	>2,000	

[1] **Typical properties will vary and are not to be used for specification purposes.**

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Regulatory Information

The product and uses described herein may require global product registrations and notifications for chemical inventory listings, or for use in food contact or medical devices. For further information, call + 1-800-527-5419.

Health and Safety Information

The product described herein may require precautions in handling and use because of toxicity, flammability, or other consideration. The Material Safety Data Sheet (MSDS) contains the available product health and safety information for this material and can be found at **www.ineos-op.com**. Before using any material, a customer is advised to consult the MSDS for the product under consideration for use.

The Material Safety Data Sheet for this product contains shipping descriptions and should be consulted, before transportation, as a reference in determining the proper shipping description. If the material shipped by INEOS is altered or modified, different shipping descriptions may apply and the MSDS of the original material should not be used.

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