

K44-11-128 Polyethylene Copolymer

K44-11-128 is a high molecular weight, high density polyethylene copolymer intended for large part blow molding where the finished product demands outstanding physical performance and low color. This material combines excellent processability and environmental stress crack resistance (ESCR) with well-balanced end use properties. This resin meets the Food and Drug Administration requirements of 21CFR 177.1520.

Typical Properties¹

	Values		ASTM Method
	English Units	SI Units	
Density	—	0.947 g/cc	D 4883
Melt Index ²	—	12.0 g/10 min	D 1238
Tensile Strength			
@ Yield (2 in/min)	3450 psi	23.8 MPa	D 638
Elongation			
@ Break (2 in/min)	850%	850%	D 638
Flexural Modulus ³	122,000 psi	841 MPa	D 790
Stiffness In Flexure	84,000 psi	579 MPa	D 747
Notched Izod Impact Strength ⁴	8.8 ft-lbf/in	0.47 kJ/m	D 256
Tensile Impact Strength	338 ft-lbf/in ²	710 kJ/m ²	D 1822
Hardness (Shore D)	64	64	D 2240
Vicat Softening Point	264 °F	129 °C	D 1525
Brittleness Temperature	<-103 °F	<-75 °C	D 746
Deflection Temperature @ 66 psi	153 °F	67 °C	D 648

¹ Typical properties will vary within specification limits.

² 190° C/21,600 g

³ 2% Secant-Method 1

⁴ Partial break

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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, please refer to the Regulatory Position Statement (RPS) online at www.ineos-op.com, or call + 1-800-527-5419.

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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.

For additional information, samples, pricing and availability, please contact:

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