

K54-05 Polyethylene Copolymer

K54-05 is a high molecular weight, high density polyethylene copolymer developed for large-part blow molding (drum market) where the finished product demands outstanding physical performance. This material combines excellent processability and environmental stress crack resistance (ESCR) with superior impact and other well-balanced end use properties. This resin meets the Food and Drug Administration requirements of 21CFR 177.1520 for contact with food.

Typical Properties¹

	Values		ASTM Method
	English Units	SI Units	
Density	—	0.954 g/cc	D 4883
Melt Index ²	—	5.0 g/10 min	D 1238
Tensile Strength			
@ Yield (2 in/min)	3900 psi	27 MPa	D 638
Elongation			
@ Break (2 in/min)	900%	900%	D 638
Flexural Modulus ³	180,000 psi	1241 Mpa	D 790
Notched Izod Impact Strength ⁴	16.0 ft-lbf/in	0.85 kJ/m	D 256
Hardness (Shore D)	64	64	D 2240
Vicat Softening Point	270 °F	132 °C	D 1525
Brittleness Temperature	<-103 °F	<-75 °C	D 746
Deflection Temperature @ 66 psi	167 °F	75 °C	D 648

¹ Typical properties will vary within specification limits.

² 190° C/21,600 g

³ Tangent-Method

⁴ Partial break

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2600 South Shore Boulevard, Ste. 500
League City, TX 77573
Tel: 281-535-6600
www.ineos-op.com

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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.

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.

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

INEOS Olefins & Polymers, USA

Marina View Building
2600 South Shore Boulevard
Suite 500
League City, Texas 77573
Phone: +1 281 535 6600
Fax: +1 281 535 6764
Customer Service: +1 800 527 5419
Tech Service: +1 800 338 0489
www.ineos-op.com

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