

K50-10-136 Polyethylene Copolymer

K50-10-136 is a high molecular weight, high density polyethylene copolymer. This product was developed for blow molding automotive fuel tanks and other large parts, where the finished product demands outstanding physical performance. K50-10-136 combines excellent processability and environmental stress crack resistance (ESCR) with superior impact and other well-balanced end use properties.

Typical Properties¹

	Values		ASTM Method
	English Units	SI Units	
Density	—	0.950 g/cc	D 4883
Melt Index ²	—	9.0 g/10 min	D 1238
Tensile Strength			
@ Yield (2 in/min)	3700 psi	25.5 MPa	D 638
Elongation			
@ Break (2 in/min)	800%	800%	D 638
Flexural Modulus ³	165,000 psi	1138 MPa	D 790
Notched Izod Impact Strength ⁴	7.5 ft-lbf/in	0.4 kJ/m	D 256
Hardness (Shore D)	63	63	D 2240
Vicat Softening Point	270 °F	132 °C	D 1525
Brittleness Temperature	<-103 °F	<-75 °C	D 746
Deflection Temperature @ 66 psi	162 °F	72 °C	D 648
Environmental Stress Crack Resistance	>500 hrs	>500 hrs	D 1693A

¹ Typical properties will vary within specification limits.

² 190° C/21,600 g

³ Tangent-Method

⁴ Partial break

Technical information contained herein is furnished without charge or obligation, and is given and accepted at recipient's sole risk. Because conditions of use may vary and are beyond our control, Ineos Olefins & Polymers USA makes no representation about, and is not responsible or liable for the accuracy or reliability of data, nor for toxicological effects or Industrial Hygiene requirements associated with particular uses of any product described herein. Nothing contained in this document shall be considered a recommendation for any use that may infringe patent rights, or an endorsement of any particular material, equipment, service, or other item not supplied by Ineos Olefins & Polymers USA. The "Properties" and "Applications" listed in this document are not specifications. They are provided as information only and in no way modify, amend, enlarge, or create any specification or warranty, and ALL WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE EXCLUDED.

The name Ineos Olefins & Polymers USA and its logo are trademarks of Ineos USA LLC or its affiliated companies. June 2006 © 2006 Ineos Olefins & Polymers USA

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

INEOS
Olefins & Polymers USA



K50-10-136 Polyethylene Copolymer

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, send an e-mail to: OPMSDS@innovene.com.

Health and Safety Information

The product described herein may require precautions in handling and use because of toxicity, flammability, or other consideration. The available product health and safety information for this material is contained in the Material Safety Data Sheet (MSDS) that may be obtained by calling + 1-800-527-5419 (Toll Free - North America), or by sending an e-mail to: OPMSDS@innovene.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 Innovene 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
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.innovene.com

Technical information contained herein is furnished without charge or obligation, and is given and accepted at recipient's sole risk. Because conditions of use may vary and are beyond our control, Ineos Olefins & Polymers USA makes no representation about, and is not responsible or liable for the accuracy or reliability of data, nor for toxicological effects or Industrial Hygiene requirements associated with particular uses of any product described herein. Nothing contained in this document shall be considered a recommendation for any use that may infringe patent rights, or an endorsement of any particular material, equipment, service, or other item not supplied by Ineos Olefins & Polymers USA. The "Properties" and "Applications" listed in this document are not specifications. They are provided as information only and in no way modify, amend, enlarge, or create any specification or warranty, and ALL WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE EXCLUDED.

The name Ineos Olefins & Polymers USA and its logo are trademarks of Ineos USA LLC or its affiliated companies. June 2006 © 2006 Ineos Olefins & Polymers USA

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

INEOS
Olefins & Polymers USA