

Ineos K50-10-136 HDPE

Category : Polymer , Thermoplastic , Polyethylene (PE) , HDPE

Material Notes:

Ineos K50-10-136 is a high molecular weight, high density polyethylene copolymer. This product was developed for blowmolding 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.

Order this product through the following link:

http://www.lookpolymers.com/polymer_ineos-K50-10-136-HDPE.php

Physical Properties	Metric	English	Comments
Density	0.950 g/cc	0.0343 lb/in ³	ASTM D4883
Environmental Stress Crack Resistance	>= 500 hour	>= 500 hour	ASTM D1693A
High Load Melt Index	9.0 g/10 min	9.0 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	63	63	ASTM D2240
Tensile Strength, Yield	25.51 MPa	3700 psi	2 in/min (50 mm/min); ASTM D638
Elongation at Break	800 %	800 %	2 in/min (50 mm/min); ASTM D638
Flexural Modulus	1.138 GPa	165.1 ksi	Tangent-Method 1; ASTM D790
Izod Impact, Notched	4.00 J/cm	7.49 ft-lb/in	Partial break; ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	72.0 Â°C	162 Â°F	ASTM D648
Vicat Softening Point	132 Â°C	270 Â°F	ASTM D1525
Brittleness Temperature	<= -75.0 Â°C	<= -103 Â°F	ASTM D746

Descriptive Properties	Value	Comments
Process	Blow Molding	
Region	US & Canada	Bamberger Polymers Distribution

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