

# INEOS HDPE K46-06-185

High Density (HMW) Polyethylene

INEOS Olefins & Polymers USA

Message:

K46-06-185 is a natural grade of high density, high molecular weight polyethylene. It is specially designed for use in the manufacture of automotive fuel tanks.

Applications

All types of automotive fuel tanks

Characteristics

Easily mouldable into complex shapes, giving very uniform wall thickness

Excellent cold impact strength

Very good environmental stress crack resistance

Low permeability to petrol/alcohol blends

General Information			
Features	Alcohol Resistant		
	Fuel Resistant		
	Good Moldability		
	High ESCR (Stress Crack Resist.)		
	High Molecular Weight		
	Low Temperature Impact Resistance		
Uses	Automotive Applications		
	Fuel Tanks		
RoHS Compliance	Contact Manufacturer		
Appearance	Natural Color		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Density <sup>1</sup>	0.946	g/cm <sup>3</sup>	ISO 1183/A
Melt Mass-Flow Rate (MFR) (190°C/21.6 kg)	4.2	g/10 min	ISO 1133
Environmental Stress-Cracking Resistance (50°C, 100% Antarox)	> 500	hr	ASTM D1693A
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D, 23°C)	61		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	1200	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	24.0	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	> 500	%	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength			ISO 180/1A
-40°C	32	kJ/m <sup>2</sup>	


23°C	62	kJ/m <sup>2</sup>	
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -118	°C	ASTM D746
Vicat Softening Temperature	128	°C	ISO 306/A
CLTE - Flow	1.3E-5	cm/cm/°C	ASTM D696
Thermal Conductivity (23°C)	0.44	W/m/K	ISO 8302
NOTE			
1.	Annealed		

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