

Eltex® RSB 714 N0060

High Density (HMW) Polyethylene

INEOS Olefins & Polymers Europe

Message:

Eltex® RSB 714 N0060 is a black compound of high density, high molecular weight polyethylene. It is specially designed for use in the manufacture 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

Applications

all types of automotive fuel tanks

specifically designed for in-line fluorination

General Information			
Features	Alcohol Resistant		
	Fuel Resistant		
	Good Moldability		
	High ESCR (Stress Crack Resist.)		
	Low Temperature Impact Resistance		
Uses	Automotive Applications		
	Fuel Tanks		
RoHS Compliance	Contact Manufacturer		
Appearance	Black		
Forms	Pellets		
Processing Method	Blow Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.946	g/cm ³	ISO 1183/A
Melt Mass-Flow Rate (MFR) (190°C/21.6 kg)	4.0	g/10 min	ISO 1133
Environmental Stress-Cracking Resistance ¹ (50°C, 100% AntaroX, F50)	> 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	33	kJ/m ²	

23°C	64	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -118	°C	ASTM D746
Vicat Softening Temperature	128	°C	ISO 306/A
CLTE - Flow	1.3E-4	cm/cm/°C	ASTM D696
Thermal Conductivity (23°C)	0.44	W/m/K	ISO 8302

NOTE			
1.	BTT Stress Crack		

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