



Eltex® RSB 714 N0060

Product Technical Information

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

Properties	Test Method	Value	Units
Physical			
Density (annealed)	ISO 1183/A	946	kg/m ³
Melt Flow Rate (21.6kg)	ISO 1133-1997 cond G	4.0	g/10min
Mechanical			
Tensile Strength at Yield (23°C)	ISO 527-1	24	MPa
Elongation at Break (23°C)	ISO 527-1	>500	%
Tensile Modulus (23°C)	ISO 527	1200	MPa
Izod Impact Strength (23°C)	ISO 180/1A	64	kJ/m ²
Izod Impact Strength (-40°C)	ISO 180/1A	33	kJ/m ²
BTT Stress Crack resistance: 100% Antarox 50°C	ASTM D 1693A	>500	hours
VICAT Softening Temperature under 1 kg	ISO 306	128	°C
Thermal conductivity (23°C)	ISO 8302	0.44	W/m.K
Shore D Hardness (23°C)	ISO 868	61	-
Coefficient of Linear Expansion	ASTM D 696	1.3x10 ⁻⁴	K ⁻¹
Brittleness temperature	ASTM D 746	<-118	°C