ELTEX® HD4620BM

Product Technical Information

ELTEX® HD4620BM is a high density polyethylene copolymer grade. It has a bimodal structure and is being specially developed for the production of injection moulded articles where very high ESCR is needed.

Benefits & Features

- Easy injectability
- Outstanding stress cracking resistance

ELTEX® HD4620BM is manufactured by INEOS Olefins & Polymers Europe using its proprietary supported catalyst & process, particularly intended for the injection moulding of parts requiring very high stress cracking resistance and enhanced processability such as SCR tanks in automotive.

Properties	Conditions	Test Methods	Values	Units
Physical				
Density	23°C	ISO 1183-1 & ISO 1872-1	946	kg/m³
Melt Flow Rate	190°C/2.16 kg	ISO 1133-1	2.0	g/10min
Mechanical(1)				
Tensile Modulus	23°C	ISO 527-1,-2	950	MPa
Tensile Strength at Yield	23°C	ISO 527-1,-2	23	MPa
Charpy Impact Strength	23°C	ISO 179	9	kJ/m²
Charpy Impact Strength	-40°C	ISO 179	4	kJ/m²
Environmental stress cracking resistance (FNCT)	40°C, 6 MPa, 2% Arkopal N100	ISO 16770	80	h
Thermal				
Melting point	DSC	INEOS Test Method	129	°C
Vicat softening point	10N	ISO306/A50	118	°C

Data should not be used for specification work

(1) Measured on compression moulded plaques

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Storage

The product should be stored in a dry and dust free environment at temperature below 50°C. Exposure to direct sunlight should be avoided as this may lead to product deterioration. It is advised to process the product within maximum one year after delivery.

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