

Material:	PE - HD black 4mm
------------------	--------------------------

Overview:

Black polyethylene sheets are made of PE-HD (high density) with a high density and have a smooth, deep black surface. The sheets do not contain a foamed polyethylene core but consist of solid sheet material. A continuous colouring ensures that both cut and sawn edges as well as the surfaces of the black polyethylene sheets have the same colour. As an engineering plastic, standard black polyethylene sheets do not have a protective film.

Description:

Polyethylene is characterised by very good chemical resistance, which is why black PE-HD sheets are very often used in the manufacture of containers or housings in chemical plants. Polyethylene is also very impact resistant, even at low temperatures, thanks to its insensitivity to frost. The good sliding properties, as well as the very long service life, contribute to the fact that polyethylene is used in particular in machine and plant construction, or in conveyor technology. Last but not least, polyethylene has various approvals for use in the food and drinking water sector, so that the food industry also prefers to use this plastic.

Parameters:

Characteristics	Units	Value	Test Method
Type		PE	
Color		black	
Thickness	mm	4	
Operation temperature	°C	-50 - 80	
Relative Density	g/cm ³	0.96	DIN 53479
Coefficient of Thermal Expansion	K	1.8 * 10 ⁻⁴	
Fire resistance		B2	
Tensile strength	Mpa	23	DIN EN ISO 527
Shore Hardness		65	DIN EN ISO 868
Thermal Conductivity	W/m*K	0.38	DIN 52612
Dielectric Constant		2.3	DIN 53483
Electrical Breakdown Strength	kV/mm	47	IEC 60243-1

Warranty:**Technical data**

All information and statements contained in this document are based on the manufacturer's or material supplier's sources known to us at the time of filing. PERLON, spol. s r.o. believes them to be reliable in good faith, but the accuracy and/or completeness of such information is not guaranteed. The data should be considered representative or typical only and should not be used for specification purposes. Manufacturers reserve the right to make changes to the design, construction and technical data of products without prior notice.

Use of the product

Many factors beyond the control of PERLON, spol. s r.o. and known only to the user may affect the use and performance of materials in a particular application. Therefore, we recommend that the customer perform their own tests of the suitability and performance of the material for their application and to a responsible extent for reliable results. As a result, the customer is solely responsible for evaluating the product and determining if it is suitable for the customer's application, including evaluating workplace hazards and reviewing all applicable regulations and standards. Failure to properly evaluate, use, or comply with all applicable safety regulations may result in injury, illness, death, and/or property damage if the material and associated safety is not properly evaluated. PERLON, spol. s r.o. makes no warranties of fitness for a particular purpose.

Limitation of liability

PERLON, spol. s r.o. shall not be liable for any loss or damage arising out of or relating to the product material, whether direct, indirect, special, incidental or consequential (including, but not limited to, loss of products or business), regardless of the applicable legal practice, including but not limited to warranty, contract, negligence or strict liability.

www.convertimg.sk