

## Technical data sheet

### KOTERM PEHD Black

#### Key benefits

Tough at lower temperature  
Long term stress cracking resistance  
Moisture and chemical resistant

#### General application

Processing equipment  
Chemical engineering

	Test method	Unit	Value
<b>General properties</b>			
Density	DIN 53479	g/cm <sup>3</sup>	0,96
Carbon black content	ISO 6469	%	
<b>Mechanical Properties</b>			
Tensile modulus	ISO 527	MPa	
Yield stress	ISO 527	MPa	>20
Tensile strength at break	ISO 527	MPa	
Elongation at break	ISO 527	%	> 200
Charpy notched impact strength at 23°C	ISO 179	kJ/m <sup>2</sup>	nb
Charpy unnotched impact strength at 23°C	ISO 179	kJ/m <sup>2</sup>	nb
Charpy impact strength with 15° V-notch	ISO 179	kJ/m <sup>2</sup>	
Hardness	ISO 868	Shore D	57
Wear resistance	Sand-Slurry		
<b>Thermal properties</b>			
Melting temperature	DIN 53736	°C	135
Thermal conductivity	DIN 52612	W/(m·K)	0,4
Coefficient of linear thermal expansion (CLTE)	DIN 53752	K <sup>-1</sup>	1,5-2×10 <sup>-4</sup>
Vicat softening temperature - A50	ISO 306/A50	°C	118
Vicat softening temperature - B50	ISO 306/B50	°C	
Service temperature (intermittent)		°C	90
Service temperature (long term)		°C	-50...80
<b>Electrical properties</b>			
Volume resistivity	DIN IEC 60093	Ω·cm	> 10 <sup>12</sup>
Surface resistivity	DIN IEC 60093	Ω	> 10 <sup>12</sup>
Dielectric strength	DIN 53481	kV/mm	
Water absorption	24h/RT	%	<0,01
OIT (200 °C)	EN 728	min	>20
Flammability (thickness 3 mm)	UL94		HB

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