

Technical Data Sheet



Polystone® D PIR black

PE-HD / PE 500

Typical characteristics

- Good sliding properties
- Good mechanical properties

Typical industries

- Conveyor Technology & Automation
- Mechanical Engineering Industry

Sustainability

- Post-Industrial-Recycling material
- Recycling content 90%

	Test method	Unit	Guideline value
General properties			
Density	DIN EN ISO 1183-1	g / cm ³	>0,95
Water absorption	DIN EN ISO 62	%	<0,01
Flammability (Thickness 3 mm / 6 mm)	UL 94		HB
Mechanical properties			
Yield stress	DIN EN ISO 527	MPa	>25
Tensile modulus of elasticity	DIN EN ISO 527	MPa	>1100
Shore hardness	DIN EN ISO 868	scale D	65
Thermal properties			
Melting temperature	ISO 11357-3	°C	130 ... 135
Thermal conductivity	DIN 52612-1	W / (m * K)	0,40
Thermal capacity	DIN 52612	kJ / (kg * K)	1,90
Coefficient of linear thermal expansion	DIN 53752	10 ⁻⁶ / K	150 ... 230
Service temperature, long term	Average	°C	-100 ... 80
Service temperature, short term (max.)	Average	°C	80
Vicat softening temperature	DIN EN ISO 306, Vicat B	°C	79
Electrical properties			
Dielectric constant	IEC 60250		2,3
Dielectric dissipation factor (10 ⁶ Hz)	IEC 60250		0,0002
Comparative tracking index	IEC 60112		600
Dielectric strength	IEC 60243	kV / mm	>40

