

# POLYPADS/500 GRADE POLYETHYLENE

MATERIAL		Natural	Coloured	Black
<b>PHYSICAL PROPERTIES</b>				
Density - DIN 53479-A	G/CM <sup>3</sup>	0.95	0.95	0.95
Notched Impact strength - DIN 53453 Charpy (15° double V-notch)	kJ/mm	30	15-25	15-25
Tensile Strength	N/mm <sup>2</sup>	≥ 25	20-25	20-25
Abrasion method acc. to DIN 58836 (Slurry test rel. to GUR 4120 =100%)	%	400	400	400
Break Elongation - DIN 53455	%	>40	>40	>40
Hardness - DIN 53505	Shore D	64-66	64-66	64-66
Dynamic value of friction μ PE-Metal Pm=2N/mm v=10m/min		0.2-0.25	0.2-0.25	0.2-0.25
Suitable for the use and contact with food. Food Approvals:		EU/FDA	EU	EU

Technical Data Sheet

## FURTHER INFORMATION

Electrical Properties				
Volume Resistivity DIN 53482/VDE0303 part 3	Ω*cm	<sup>13</sup> >10	<sup>14</sup> <10	<sup>14</sup> <10

## THERMAL PROPERTIES

Linear expansion	DIN 53752	~2*10 <sup>-4</sup> /K
Melting Temperature	DSC ISO 3146	130-135°C

The above data is based on present knowledge and is given without guarantee.  
Existing laws and conditions are to be respected by the user of our products.

**PARTWELL LIMITED**  
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