

# Makrofol<sup>®</sup> DE 1-4 011267

## Description and Application Information

Makrofol<sup>®</sup> DE 1-4 011267 is a translucent white colored extrusion film based on Makrolon Polycarbonate. It comprises all of the well known advantages of Polycarbonate such as excellent mechanical and optical properties.

The surface combination of Makrofol<sup>®</sup> DE 1-4 011267 is gloss/very fine matte. It stands out due to its good printing quality and formability. It is suitable for High Pressure Forming process (HPF) and Film-Insert-Molding process (FIM).. Makrofol<sup>®</sup> DE 1-4 011267 is available in standard thickness of 300 µm. Typical applications are front panels, labels and control elements of electronic devices (white goods).

## Guide data\*

<b>General properties</b>			
<b>Property</b>	<b>Value</b>	<b>Unit of measurement</b>	<b>Method</b>
Density	1,2	g/cm <sup>3</sup>	ISO 1183, 20°C method C
Thickness	300	µm	ISO 4593
Gloss, 60° 1-side	≥ 99	Digits	ISO 2813
Gloss, 60° 4-side	≤ 12	Digits	ISO 2813
Roughness R3z 1-side	≤ 0,5	µm	following ISO 4287/88
Roughness R3z 4-side	≤ 11	µm	following ISO 4287/88
<b>Mechanical properties</b>			
<b>Property</b>	<b>Value</b>	<b>Unit of measurement</b>	<b>Method</b>
Tensile Modulus	≥ 2000	MPa	ISO 527-1,-3
Stress at break, parallel	≥ 60	MPa	ISO 527-1,-3
Strain at break, parallel	≥ 100	%	ISO 527-1,-3
<b>Optical properties</b>			
<b>Property</b>	<b>Value</b>	<b>Unit of measurement</b>	<b>Method</b>
Luminous transmittance	42,7	%	ISO 13468-2
Half power angle	55	degree	following DIN 5036
<b>Thermal properties</b>			
<b>Property</b>	<b>Value</b>	<b>Unit of measurement</b>	<b>Method</b>
Shrinkage, parallel 130°C, 1 h	≤ 0,5	%	following IEC 60674-2

\* These values provide general information and are not part of the product specification.

