

Technical data for the PPs grey raw material  
for semi finished products (GUIDE VALUES)

	Property	Standard	Unit	PP-H s grey
	Specific density at 23°C	ISO 1183	g/cm <sup>3</sup>	0,93
	Melt flow rate MFR 190°C/5kg MFR 230°C/5 kg	ISO 1133	g/10min	0,80 2,00
Mechanical Properties	Tensile stress at yield	ISO 527	MPa	30
	Elongation at yield	ISO 527	%	10
	Elongation at break	ISO 527	%	>50
	Impact strength unnotched at +23°C	ISO 179	kJ/m <sup>2</sup>	no break
	Impact strength unnotched at -30°C			28
	Impact strength notched at +23°C	ISO 179	kJ/m <sup>2</sup>	9
	Impact strength notched at 0°C			2,8
	Impact strength notched at -30°C			2,2
	Ball indentation hardness acc. Rockwell	ISO 2039-1	MPa	72
Flexural strength (3,5% flexural stress)	ISO 178	MPa	37	
Modulus of elasticity	ISO 527	MPa	1300	
Thermal Properties	Vicat-Softening point VST/B/50	ISO 306	°C	85
	Heat deflection temperature HDT/B	ISO 75	°C	85
	Linear coefficient of thermal expansion	DIN 53752	K <sup>-1</sup> x 10 <sup>-4</sup>	1,6
	Thermal conductivity at 20 °C	DIN 52612	W/(mxK)	0,2
	Flammability	UL94	--	V-0*
Electrical Properties	Specific volume resistance	VDE 0303	OHM cm	>10 <sup>15</sup>
	Specific surface resistance	VDE 0303	OHM	>10 <sup>15</sup>
	relative dielectric constant at 1 MHz	DIN 53483	--	
	Dielectric strength	VDE 0303	kV/mm	30-45
	Physiologically non-toxic	EEC 90/128	--	Yes
	FDA	--	--	No
	UV stabilized	--	--	No
	Colour	--	--	grey(similar RAL 7037)

\*Please see the certificate attached to the email



Tolerances for extruded sheets in PPs

Tolerances for length and width:

Nominal Dimension [mm]		Length*		Width*	
More than	Up to	min	max	min	max
0	500	-1,0	+3,0	-1,0	+3,0
500	1000	-1,0	+3,0	-1,0	+3,0
1000	1500	-1,0	+4,0	-1,0	+5,0
1500	2000	-1,0	+6,0	-1,0	+6,0
2000	3000	-1,0	+8,0	-1,0	+8,0
3000	4000	-1,0	+11,0	--	--

\*Allowed tolerances in mm

Tolerances for the thickness:

<i>PP sheet extruded</i>	
<i>Thickness s [mm]</i>	<i>Tolerance -/+</i>
1	+/-0,11
2	+/-0,14
3	+/-0,17
4	+/-0,20
5	+/-0,23
6	+/-0,26
8	+/-0,32
10	+/-0,38
12	+/-0,44
15	+/-0,53
20	+/-0,68
25	+/-0,83
30	+/-0,98
35	+/-1,13
40	+/-1,28

Allowed variances in mm

Calculation Formula acc. EN ISO 15013 / 15014: Tol s £ 0,08mm + (0,03 x s)

General manager: Mag. Alois Gruber, Alois Gruber jun.  
Commercial Court: LG Steyr

Bad Hall, 2022 01 17

All information and statements submitted on this paper are based on our current knowledge and experience. In view of the many factors that may affect processing and application, these data do not relieve users from the responsibility of carrying out their own tests and experiments; neither do they imply any legally binding assurance of certain properties or of suitability for a specific purpose. It is the responsibility of those to whom we supply our products to ensure that any proprietary rights and existing laws, standards and legislation are observed. The statements about all product relevant properties in our valid catalogues, documents and price lists have to be considered.

