

# EXPANDED POLYPROPYLENE (EPP)

## TECHNICAL DATA SHEET— FROM 20 G/L TO 90 G/L

Physical Properties	Testing Method	Unit	20	30	45	60	67	82	90
Compressive Strength 25% Strain 50% Strain 75% Strain	ASTM D3575	MPa	0,10 0,16 0,31	0,16 0,23 0,44	0,28 0,37 0,76	0,39 0,50 1,07	0,45 0,59 1,26	0,60 0,80 1,78	0,69 0,93 2,08
Compression Set	ASTM D3575	%	14	12	12	11	11	10	10
Tensile Strength	ASTM D3575	MPa	0,26	0,38	0,46	0,62	0,71	0,87	0,97
Tensile Elongation	ASTM D3575	%	15	15	14	14	13	13	12
Tear Strength	ASTM D3575	KN/m	1,74	2,13	2,73	3,25	3,51	4,07	4,35
Flexural Strength	ASTM D790	MPa	0,21	0,38	0,54	0,72	0,86	1,08	1,16
Flexural Modulus	-	MPa	9,8	11,6	14,5	19,0	22,2	28,9	31,1
Coefficient of Linear Thermal Expansion 20°C to -40°C 20°C to 80°C	ASTM D696	mm/mm/°C·10 <sup>-5</sup>	6,8 10,8	5,9 10,2	5,5 9,8	4,3 8,7	4,1 7,9	3,9 7,5	3,7 6,8
Water Absorption	ASTM C272	gms/cc·10 <sup>-3</sup>	10,4	8,1	6,2	5,1	4,5	4,2	3,5
Flammability	FMVSS 302	<100 mm/min.	Pass	Pass	Pass	Pass	Pass	Pass	Pass
Chemical Resistance (Auto fuels, fluids, solvents)	Various	1hr exposure	Pass	Pass	Pass	Pass	Pass	Pass	Pass
Data for JSP International ARPRO® White Material (7000 Series) and Black Material (5000 Series). Typical Values Shown.									

### ISO 9001:2015

Certified quality management system ISO 9001:2015

Polyform has been a leader in the plastics industry for over 50 years. The company has developed a great expertise in working with various raw materials. To learn more about technical data or other available materials, do not hesitate to contact your representative or our team at : [sales@polyform.com](mailto:sales@polyform.com).



# EXPANDED POLYPROPYLENE (EPP)

## TECHNICAL DATA SHEET— FROM 106 G/L TO 225 G/L

Physical Properties	Testing Method	Unit	106	120	150	180	200	225
Compressive Strength 25% Strain 50% Strain 75% Strain	ASTM D3575	MPa	0,87 1,20 2,90	1,02 1,45 3,70	1,50 2,18 5,80	1,95 3,00 8,25	2,05 3,30 9,90	2,80 3,90 13,60
Compression Set	ASTM D3575	%	10	10	11	11	12	12
Tensile Strength	ASTM D3575	MPa	1,05	1,21	1,37	1,42	1,46	1,51
Tensile Elongation	ASTM D3575	%	12	11	11	10	10	9
Tear Strength	ASTM D3575	KN/m	4,86	5,15	5,77	6,36	6,80	7,33
Flexural Strength	ASTM D790	MPa	1,4	1,58	1,9	2,4	2,65	2,95
Flexural Modulus	-	MPa	41,0	58,00	73,0	87,00	96,0	109,0
Coefficient of Linear Thermal Expansion 20°C to -40°C 20°C to 80°C	ASTM D696	mm/mm/°C·10 <sup>-5</sup>	3,6 6,8	3,4 5,6	3,2 4,7	2,9 3,7	2,6 3,2	2,2 2,9
Water Absorption	ASTM C272	gms/cc·10 <sup>-3</sup>	3,1	2,7	2,3	1,9	1,7	1,3
Flammability	FMVSS 302	<100 mm/min.	Pass	Pass	Pass	Pass	Pass	Pass
Chemical Resistance (Auto fuels, fluids, solvents)	Various	1hr Exposure	Pass	Pass	Pass	Pass	Pass	Pass
Data for JSP International ARPRO® White Material (7000 Series) and Black Material (5000 Series). Typical Values Shown.								

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