



Polypropylene

Physical Property	ASTM Test Method	Units	Value
Tensile strength 23°C	D638	MPa	41.37
		psi	6000
Tensile strength -40°C	D638	MPa	~
		psi	~
Elongation at 23°C	D638	%	120/900
Elongation at break	D638	%	~
Hardness	D785	Shore D	73
		Rockwell R	~
Flexural strength	D790	MPa	49.03
		psi	7500
Deformation under load 140Kgf/cm ² at 23°C for 24 hours	D621	%	~
Charpy impact strength at 23°C	D256	J/M	~
		ftlbs/inch	~
Charpy impact strength at -40°C	D256	J/M	~
		ftlbs/inch	~
Modulus of elasticity	D638	MPa	981
		psi	142233
Compressive strength	D695	MPa	~
		psi	~
Compressive yield strength	D695	MPa	~
		psi	~
Linear thermal expansion coefficient 30-100°C	E831	mm/mm/°C	9 x 10 ⁻⁴
Melt point	D3418	°C	163
Heat distortion temperature °C	D648	264 psi	60
		66 psi	107/121
Service temperature (short term)	D570	°C	~
Service temperature (long term)	D570	°C	~
Dielectric strength	D149	Kv/mm	80
Specific gravity	D792	g/cm ³	0.915
Water absorption 24 hrs	D570	%	0.01
Water absorption saturation	D570	%	~
Flammability	UL 94	Burn rate	~

1. The test figures stated are typical values and their aim is to assist the specifier in material selection. They are not intended to represent exact specifications.
2. ~denotes no data available at the time of publication. Please contact Devol for further information.
3. The information in this bulletin is to our best knowledge true and accurate but all instructions, recommendations or suggestions are made without guarantee. Since the conditions of use are beyond their control, Devol Engineering and its subsidiaries disclaim any liability for loss or damage suffered from use of these data or suggestions. Furthermore no liability is accepted if use of any product in accordance with these data or suggestions infringes any patent.