

## VESTAMID® compounds for injection molded parts of fuel systems

Applications	Method	Unit	connectors for vapor lines	connectors and valves for non-conductive liquid fuel and vapor lines				connectors and valves for conductive liquid fuel lines			retainers for connectors
			X7373	L1833	L-GF30	LX9111	DX9321	X7380	LX9106	LX9107	DX9300
Designations	ISO 1874-1		PA12, MHR, 18-010N	PA12, MHR, 16-050, GF23	PA12, MHR, 18-070, GF30	PA12, MH, 18-070, GF30	PA612-HI, MH, 14-050	PA12-HI, MHZ, 16-050, GF23		PA12, MHLZ, 16-070 (GF15+CFXX)	PA612, MHR, 12-020
Density 23 °C	ISO 1183	g/cm <sup>3</sup>	1.01	1.17	1.24	1.24	1.19	1.21	1.28	1.16	1.06
Melting point (2 <sup>nd</sup> heating)	ISO 11357	°C	178	178	178	177	215	178	178	178	215
Temperature of deflection under load Method A, 1.8 MPa Method B, 0.45 MPa	ISO 75	°C	50	160	165	167	189	160	160	164	75*
		°C	130	175	175	177	208	175	175	178	170*
Mold shrinkage in flow direction in transverse direction	ISO 294-4	%	0.95	0.20	0.15	0.2	0.66	0.25	0.90	0.10	1.1
		%	1.15	0.65	0.65	0.6	0.88	0.75	1.00	0.60	1.5
Stress at yield	ISO 527-1/-2	MPa	47			113			89	124	59
Strain at yield		%	5			5			4	5	5
Stress at break		MPa		105	120		115	100	90	125	
Strain at break		%	> 50	6	5	6	5	6	6	6	> 50
Tensile modulus		MPa	1500	5000	6500	6500	5700	5400	5500	8200	2100
CHARPY impact strength 23 °C - 30 °C	ISO 179/1eU	kJ/m <sup>2</sup> kJ/m <sup>2</sup>	N	90 C	100 C	77 C	93 C	80 C	78 C	96 C	N
			N	95 C	100 C	84 C	106 C	60 C	77 C	103 C	N
CHARPY notched impact strength 23 °C - 30 °C	ISO 179/1eA	kJ/m <sup>2</sup> kJ/m <sup>2</sup>	6 C	25 C	23 C	23 C	18 C	17 C	19 C	19 C	6 C
			6 C	16 C	21 C	17 C	11 C	8 C	11 C	12 C	6 C
Volume resistance	SAE J1645	Ohm x cm						10 <sup>4</sup>	10 <sup>4</sup>	10 <sup>4</sup>	

\*after conditioning at 180 °C/60 min

N = no break

C = complete break