



HIGH PRESSURE LAMINATE PHYSICAL PROPERTIES CHART

	HGS (H-5) GENERAL PURPOSE GRADE		HGL (H-4) HORIZONTAL GRADE		HGP (HF-4) HORIZONTAL FORMING GRADE		VGP (VF-3) VERTICAL FORMING GRADE	
	Typical Nevamar Values	NEMA Requirements	Typical Nevamar Values	NEMA Requirements	Typical Nevamar Values	NEMA Requirements	Typical Nevamar Values	NEMA Requirements
WEAR RESISTANCE (cycles) NEMA LD3.3.13	1000 cycles	400 min.	1000 cycles	400 min.	1000 cycles	400 min.	1000 cycles	400 min.
DART IMPACT RESISTANCE NEMA LD3.3.9	700 MM	500 MM	500 MM	300 MM	550 MM	300 MM	450 MM	200 MM
BALL IMPACT RESISTANCE (inches drop) NEMA LD3.3.8	66	50	44	35	48	30	40	20
DIMENSIONAL CHANGE % MD, Max. % CD, Max. NEMA LD3.3.11	0.35% 0.75%	0.5% 0.9%	0.35% 0.70%	0.6% 1.0%	0.35% 0.75%	1.1% 1.4%	0.35% 0.75%	1.1% 1.4%
RESISTANCE TO BOILING WATER NEMA LD3.3.5	No Effect	No Effect	No Effect	No Effect	Slight Effect	Slight Effect	Slight Effect	Slight Effect
RESISTANCE TO HIGH TEMPERATURE NEMA LD3.3.6	No Effect	Slight Effect	No Effect	Slight Effect	No Effect	Slight Effect	No Effect	Slight Effect
RADIANT HEAT RESISTANCE NEMA LD3.3.10	300 sec.	125 sec. Min.	300 sec.	100 sec. Min	275 sec.	100 sec. Min	250 sec.	80 sec. Min
ROOM TEMPERATURE DIMENSIONAL STABILITY % MD, Max. % CD, Max. NEMA LD3.3.12	0.3% 0.5%	0.5% 0.8%	0.25% 0.45%	0.6% 1.0%	0.40% 0.19%	1.0% 1.3%	0.3% 0.6%	1.0% 1.3%
STAIN RESISTANCE NEMA LD3.3.4	Unaffected by reagents I-15	Unaffected by reagents I-10 moderate II-15	Unaffected by reagents I-15	Unaffected by reagents I-10 moderate II-15	Unaffected by reagents I-15	Unaffected by reagents I-10 moderate II-15	Unaffected by reagents I-15	Unaffected by reagents I-10 moderate II-15
LIGHT RESISTANCE NEMA LD3.3.3	No Effect	Slight Effect	No Effect	Slight Effect	No Effect	Slight Effect	No Effect	Slight Effect
CLEANABILITY NEMA LD3.3.4	7-11	20	7-10	20	7-10	20	7-10	20
FORMABILITY NEMA LD3.3.14					3/8"	5/8" Radius	1/4"	1/2"
BLISTER RESISTANCE NEMA LD3.3.15					60 sec.	55 sec.	52 sec.	40 sec.