

SUPER DUCTILE THIN WALL FLAME RETARDANT LEXAN™ EXL9414 RESIN

APPLICATIONS AND VALUE PROPOSITION



Fast Charging
Enclosures



Self Balance Scooters /
Hoverboards



Power Banks



Mobile Phones
& Portable Devices



Drone Battery &
Electrical Enclosures

- Non-brominate, non-chlorinate Thin wall FR. Compliance with IEC 60695.
- Superior ductility, similar as EXL1414
- -40°C low temperature impact resistant
- Good chemical resistance vs std. PC
- Lower Draft Angles / Lower Ejection Pressures / Faster Cycle Time

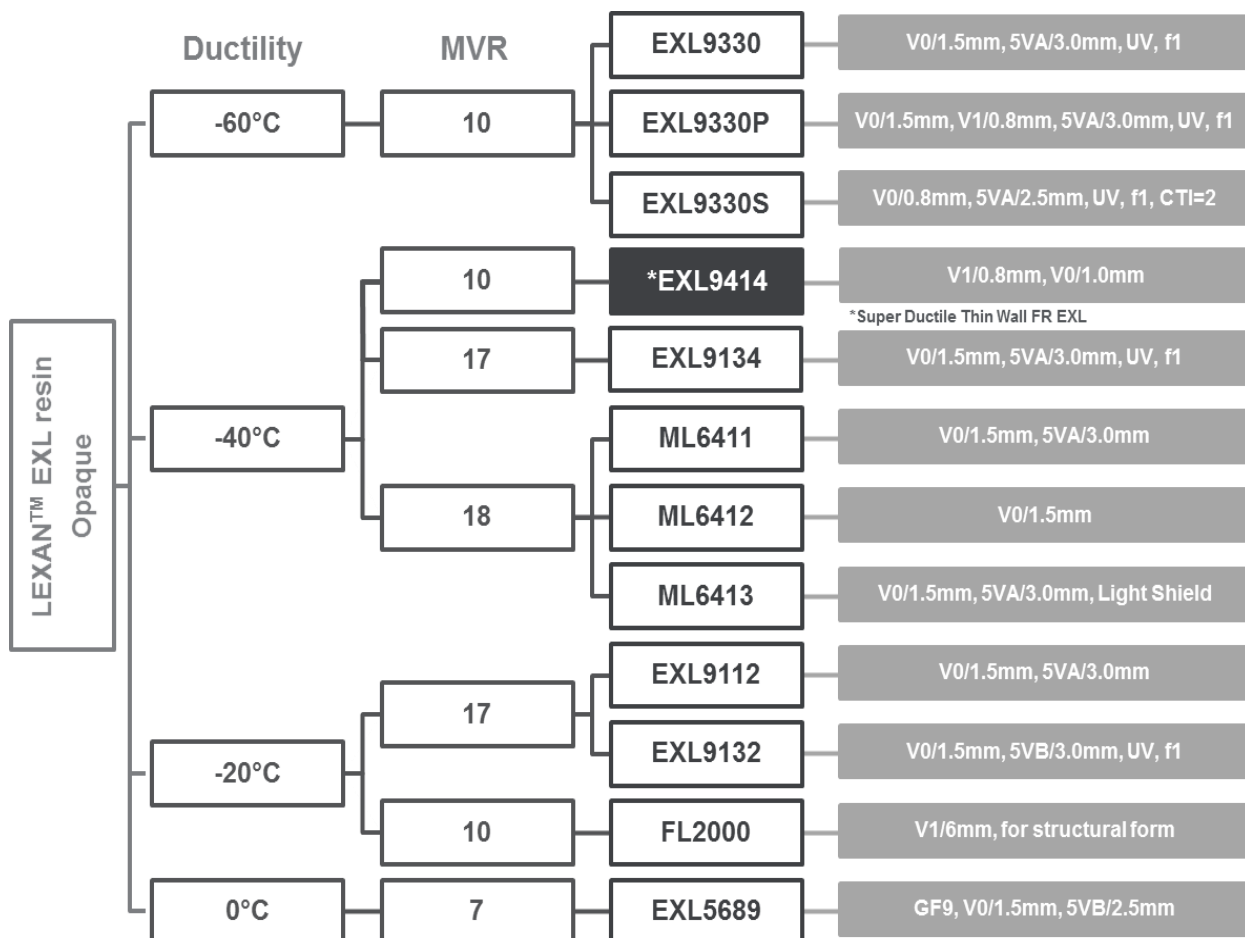
COMPARISON OF LEXAN™ EXL1414 AND EXL9414 RESINS

Typical Properties	EXL9414	EXL1414	Unit	Standard
Tensile Stress, yld, Type I, 50 mm/min	56	55	MPa	ASTM D 638
Tensile Strain, brk, Type I, 50 mm/min	107	98	%	ASTM D 638
Flexural Stress, yld, 1.3 mm/min, 50 mm span	88	92	MPa	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	2190	2230	MPa	ASTM D 790
Izod Impact, notched, 23 °C	880	865	J/m	ASTM D 256
Izod Impact, notched, -30 °C	660	774	J/m	ASTM D 256
Instrumented Impact Total Energy, 23 °C	67	70	J	ASTM D 3763
HDT, 1.82MPa, 3.2mm, unannealed	118	124	°C	ASTM D 648
Melt Flow Rate, 300 °C/1.2kgf	11.5	10	g/10 min	ASTM D 1238
UL94 Flame Rating	V-1 @ 0.8mm V-0 @ 1.0mm 5VB @ 1.5mm	HB @ 0.4mm	- - -	UL 94



LEXAN™ EXL9414 resin is the FR version of EXL1414, with V1 at 0.8mm, V0 at 1.0mm, targeted at thin wall FR applications

FLAME RETARDANT OPAQUE LEXAN™ EXL RESIN PORTFOLIO



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