

■ **Typical Properties of XENOV[®]**

IKP (주)일광폴리머 ILKWANG POLYMER CO., LTD

PROPERTIES	Unit	Method	1102	1731	5220U	5720U	CL100	1402B	X5600WX	X5600HP
MECHANICAL										
Tensile Stress, yld, Type I, 50 mm/min	Mpa	ASTM D 638	54	61	53	47	50	490	61	50
Tensile Stress, yld, Type I, 5 mm/min	Mpa	ASTM D 638	-	-	-	44	-	-	-	-
Tensile Strain, brk, Type I, 50 mm/min	%	ASTM D 638	150	120	120	116.6	120	-	-	150
Flexural Stress, yld, 1.3 mm/min, 50 mm span	Mpa	ASTM D 790	82	93	84	70	90	700	99	75
Flexural Modulus, 1.3 mm/min, 50 mm span	Mpa	ASTM D 790	1960	2340	2030	1660	2100	20300	2480	2050
IMPACT										
Izod Impact, notched, 23°C	J/m	ASTM D 256	801	667	710	722	800	70	800	750
Izod Impact, notched, -30°C	J/m	ASTM D 256	640	106	-	647	170	54	267	600
Izod Impact, notched, -40°C	J/m	ASTM D 256	-	-	299	598	160	-	-	-
THERMAL										
HDT, 0.45 MPa, 6.4 mm, unannealed	°C	ASTM D 648	110	115	107	117	-	-	120(3.2mm)	-
HDT, 1.82 MPa, 6.4 mm, unannealed	°C	ASTM D 648	90	107	98	95	95(3.2mm)	96	98(3.2mm)	80(3.2mm)
PHYSICAL										
Specific Gravity	-	ASTM D 792	1.2	1.22	1.21	1.17	1.22	1.19	1.24	1.22
Specific Volume	cm³/g	ASTM D 792	0.83	0.82	0.82	0.85	-	0.84	-	-
Mold Shrinkage, flow, 3.2 mm	%	SABIC Method	0.8 - 1	0.5 - 0.7	0.8 - 1	0.6 - 0.9	0.7~1	0.9 - 1.1	0.7 - 0.9	0.7~1.1
Mold Shrinkage on Tensile Bar, xflow (2)	%	SABIC Method	-	-	0.8 - 1	-	-	0.9 - 1.1	0.7 - 0.9	-
Mold Shrinkage, xflow, 3.2 mm	%	SABIC Method	0.8 - 1	0.6 - 0.8	-	-	-	-	-	0.7 - 0.9
ELECTRICAL										
Arc Resistance, Tungsten {PLC}	PLC Code	ASTM D 495	-	5	5	-	-	-	-	5
Hot Wire Ignition {PLC}	PLC Code	UL 746A	-	2	3	-	-	-	-	1
High Voltage Arc Track Rate {PLC}	PLC Code	UL 746A	-	2	0	-	-	-	-	1
High Ampere Arc Ign, surface {PLC}	PLC Code	UL 746A	-	0	0	-	-	-	-	3
Comparative Tracking Index (UL) {PLC}	PLC Code	UL 746A	-	2	1	-	-	-	-	2
FLAME CHARACTERISTICS										
Unignized, 94HB Flame Class Rating (3)	mm	UL 94	-	1.49	1.49	-	-	-	-	
Water exposure/immersion	-	UL 746C	-	-	F2	-	-	-	-	

