

Item	Method	Unit	PELPRENE™ P-Type				
			P30B	P40B	P40H	P55B	P70B
Hardness	JIS K6301	A	71	82	89	94	96
	ASTM D2240	D	29	31	38	44	46
Specific Gravity	ASTM D792	–	1.05	1.07	1.12	1.15	1.17
50% Tensile Modulus	ASTM D638	MPa	2.5	3.4	6.4	9.8	10.8
10% Compression Modulus	ASTM D695	MPa	2.0	2.4	4.5	7.6	9.2
Flexural Modulus	ASTM D790	MPa	15	23	51	76	108
Tensile Strength	ASTM D638	MPa	12	14	21	29	30
Tensile elongation	ASTM D638	%	840	820	690	700	550
Tear Strength	ASTM D624	kN/m	71	76	98	113	122
IZOD notched impact test	ASTM D256	J/m	NB**	NB	NB	NB	NB
Taber abrasion	ASTM D1044	mg/1000c.	20	20	20	15	15
Resilience	JIS K6301	%	78	81	78	74	71
Compression set	JIS K6301	%	50	49	50	53	55
Melting point	DSC		160	180	172	182	200
Vicat Softening point	ASTM D1525		73	89	120	155	170
Heat deflection temperature	ASTM D648		–	–	–	–	74
Brittle point	JIS K6301		< -65	< -65	< -65	< -65	< -65
Flammability	UL94	–	HB	HB	HB	HB	HB
Coefficient of heat expansion	TMA	1/K	20×10 ⁻⁵	20×10 ⁻⁵	17×10 ⁻⁵	17×10 ⁻⁵	16×10 ⁻⁵
Dielectric strength	JIS K2111	MV/m	20	20	20	22	25
Volume strength	ASTM D257	Ω•cm	1×10 ¹²	1×10 ¹²	2×10 ¹²	9×10 ¹²	6×10 ¹³
Moisture absorption	23  6 5%RH	%	0.58	0.56	0.48	0.45	0.43
Melt flow index	ASTM D1238	g/10min	14 ^a	10 ^a	10 ^a	22 ^b	20 ^b

Mold shrinkage	Mold 2mm thickness	%	0.4	0.4	0.5	0.7	1.0
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* Melt flow index a:190°C b:230°C

** NB : Not Break

Item	Method	Unit	PELPRENE™ P-Type				
			P90B	P150B	P280B	E450B	P150M
Hardness	JIS K6301	A	96	98	99	99	96
	ASTM D2240	D	52	57	68	78	50
Specific Gravity	ASTM D792	–	1.19	1.23	1.26	1.28	1.19
50% Tensile Modulus	ASTM D638	MPa	14.7	19.6	28.4	40.3	9.8
10% Compression Modulus	ASTM D695	MPa	13.3	19.1	35.0	39.2	9.0
Flexual Modulus	ASTM D790	MPa	162	289	494	1,267	118
Tensile Strength	ASTM D638	MPa	31	38	37	35	37
Tensile elongation	ASTM D638	%	700	500	500	440	420
Tear Strength	ASTM D624	kN/m	172	177	206	237	142
IZOD notched impact test	ASTM D256	J/m	NB	NB	78	39	NB
Taber abrasion	ASTM D1044	mg/1000c.	13	10	8	5	15
Resilience	JIS K6301	%	65	59	55	–	44
Compression set	JIS K6301	%	57	60	–	–	60
Melting point	DSC		203	212	218	222	170
Vicat Softening point	ASTM D1525		180	190	199	202	140
Heat deflection temperature	ASTM D648		101	117	155	161	50
Brittle point	JIS K6301		< -65	< -65	-60	-60	-65
Flammability	UL94	–	HB	HB	HB	HB class	HB class

Coefficient of heat expansion	TMA	1/K	14×10^{-5}	14×10^{-5}	14×10^{-5}	14×10^{-5}	17×10^{-5}
Dielectric strength	JIS K2111	MV/m	30	30	30	30	30
Volume strength	ASTM D257	$\Omega \cdot \text{cm}$	6×10^3	2×10^{14}	5×10^{14}	7×10^{15}	1×10^{14}
Moisture absorption	23  , 65%RH	%	0.40	0.36	0.30	0.25	0.36
Melt flow index	ASTM D1238	g/10min	20 ^b	20 ^b	13 ^b	10 ^b	20 ^b
Mold shrinkage	Mold 2mm thickness	%	1.1	1.3	1.6	1.7	0.3

* Melt flow index a: 190°C b: 230°C

The data the description is the popular value, not the guaranteed value.