

# Arnitel<sup>®</sup> Eco

## Typical properties

Properties	L-X07110	L-X07129	L-X07128	L-X07135	L-X07095	Unit	Test Method
	70 Shore D	70 Shore D	55 Shore D	46 Shore D	40 Shore D		
<b>RHEOLOGICAL PROPERTIES</b>							
Melt volume-flow rate	5	25	30	40	35	cm <sup>3</sup> /10min	ISO 1133
Temperature	230	230	230	230	230	°C	ISO 1133
Load	2,16	2,16	2,16	2,16	2,16	kg	ISO 1133
Relative Solution viscosity in m-cresol	-	-	2	1,95	1,95		ISO 3076
<b>MECHANICAL PROPERTIES</b>							
Shore D Hardness (3s)	70	70	55	46	40	-	ISO 868
Tensile modulus	320	320	160	95	46	MPa	ISO 527-1/-2
Strain at break	265	265	380	560	460	%	ISO 527-1/-2
Stress at break	34	34	26	24	14	MPa	ISO 527-1/-2
Stress at 5% strain	16	16	7,2	5	1,9	MPa	ISO 527-1/-2
Stress at 10% strain	21	21	11,1	8	3,6	MPa	ISO 527-1/-2
Stress at 50% strain	24	24	13,2	11	6,4	MPa	ISO 527-1/-2
Stress at 100% strain	24	24	13,3	10	6,6	MPa	ISO 527-1/-2
Izod notched impact strength (+23°)	-	-	NB	NB	NB		ISO 180
Izod notched impact strength (-30°)	-	-	-	-	-		ISO 180
Charpy notched impact strength (+23°C)	-	-	NB	NB	NB	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength (-30°C)	-	-	5	-	NB	kJ/m <sup>2</sup>	ISO 179/1eA
<b>THERMAL PROPERTIES</b>							
Melting temperature (10°C/min)	207	207	196	180	158	°C	ISO 11357-1/-3
Glass transition temperature	-2	-2	-17	-	-35	°C	ISO 11357-1/-2
Vicat softening temperature (50°C/h 50N)	-	-	59	-	nm	°C	ISO 306
Vicat softening temperature (50°C/h 10N)	-	-	156	-	90	°C	ISO 306
<b>ELECTRICAL PROPERTIES</b>							
Volume resistivity	3E+14	3E+14	2E+14	8,7E+13	5,9E+15	Ohm·m	IEC 60093
Surface resistivity	2,6E17	2,6E17	5E+17	6,8E+17	1,3E+18	Ohm	IEC 60093
Electric strength	20	20	20	20	20	kV/mm	IEC 60243-1
<b>OTHER PROPERTIES</b>							
Water absorption	0,15	0,15	0,15	0,14	0,14	w%	24 hrs, 23°C in
Density	1230	1230	1170	1130	1091	kg/m <sup>3</sup>	ISO 1183
Renewable content	22	22	33	43	53	%	ASTM D6866

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