

<b>Table 3.4.4 J: Lead and Non-lead Heat Stabilizer Performance Comparison</b>					
<b>Material/Performance Property</b>	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>
Dibasic lead phthalate (phr)	6.0				
Stearic acid (phr)	0.2				
Tribasic lead sulfate (phr)		5.0			
Dibasic lead stearate (phr)		1.0			
RUP-110GP (phr)			6.0	8.0	
RUP-144RT (phr)					6.0
Press plaque, 190 Cx5min (YI)	31.0	24.1	31.5	30.7	29.2
190 Cx30min (YI)	43.7	30.7	36.0	34.1	33.5
Color rating after heat aging 190 <sup>0</sup> Cx60min (1 for good, 10 for poor)	7.5	7	6.5	6.5	6
Decomposition time at 200 C (min)	90	120~	120	120<	120<
Volume Resistivity (VR) VRx10 <sup>14</sup> Original (Ohm-cm)	0.7	3.8	4.0	3.9	0.9
Immersion Into hot water (90 C)					
VRx10 <sup>14</sup> after 1 week	0.1	0.1	12.7	12.8	16.4
VRx10 <sup>14</sup> after 2 weeks	0.08	0.2	20.8	14.9	23.5
VRx10 <sup>14</sup> after 3 weeks	0.9	2.9	16.1	17.0	39.0
VRx10 <sup>14</sup> after 4 weeks	0.6	0.8	12.8	15.9	22.9
VRx10 <sup>14</sup> after 5 weeks	0.7	1.6	15.4	14.6	16.0
VRx10 <sup>14</sup> after 6 weeks	0.4	4.3	12.1	16.6	12.3
VRx10 <sup>14</sup> after 12 weeks	0.6	2.9	11.3	22.4	10.8
VRx10 <sup>14</sup> after 18 weeks	0.4	3.2	12.4	15.4	15.5
VRx10 <sup>14</sup> after 26 weeks	0.5	2.2	11.5	15.5	14.5
Elongation %	323	336	329	324	324
Tensile strength MPa	31.6	32.0	31.1	30.0	31.6
100% Modulus MPa	19.2	18.6	18.2	18.1	18.6
Weight Loss %	6.0	5.8	5.6	6.3	6.6
Elongation %	271	275	280	265	285
Elongation retention %	84	82	85	82	88
Tensile strength MPa	32.1	32.8	32.5	31.7	33.5
100% Modulus MPa	25.1	25.4	24.8	24.8	24.6

Source: Amfine Datasheet for RUP 144RT