

续表 5

项 目	空白		Z-210		Z-220		SJ-103		Aktiplast T		Aktiplast 8		A-86	
扯断永久变形/ %	11	8	15	8	12	14	12	7	14	8	12	8	12	8
300 %定伸应力/ MPa	10.8	10.3	11.0	11.6	11.3	10.3	11.6	10.3	10.8	10.7	10.7	10.0	10.0	9.8
100 %定伸应力/ MPa	2.3	2.1	2.5	2.4	2.5	2.3	2.5	2.0	2.5	2.3	2.2	2.0	2.1	2.1
撕裂强度/ (kN·m <sup>-1</sup> )	58.0	54.7	54.0	51.6	56.7	53.8	54.9	52.8	56.6	53.3	56.2	54.0	57.3	52.6
回弹值/ %	57	—	57	—	59	—	57	—	57	—	58	—	56	—
阿克隆磨耗量/ cm <sup>3</sup>	0.360	—	0.397	—	0.394	—	0.372	—	0.340	—	0.354	—	0.355	—
压缩生热(55 ,1.0 MPa,4.45 mm)														
升温/	18.2	—	18.1	—	17.2	—	18.1	—	17.6	—	18.3	—	19.1	—
永久变形/ %	1.4	—	1.4	—	1.4	—	1.4	—	1.4	—	1.4	—	1.4	—
终动压缩率/ %	12.4	—	11.9	—	11.9	—	12.7	—	11.9	—	12.4	—	12.3	—

更好。

### 3 结 论

(1) 复合型塑解剂不但可提高塑炼效率,而且可改善后续的加工性能;因其化学成分中有物理塑解剂、有机或无机分散剂作载体,故分散均匀性

(2) 物理、化学和复合三类塑解剂,虽然自身成分不同、塑解机理不同,但并未对胶料的硫化特性和硫化胶的物理性能产生明显影响。

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## Study on properties of complex rubber peptizer

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**Abstract:** The masticating effect, processibility and curing characteristics of rubber compound with complex peptizer were investigated and compared to those of rubber compounds with physical or chemical peptizers respectively. The test results showed that the complex peptizer gave rubber compound higher plasticity and improved processibility when compared to physical peptizer, and gave rubber compound better dispersity and processibility when compared to chemical peptizer. The physical, chemical and complex peptizers had little effect on the curing characteristics of rubber compound and the physical properties of vulcanizate although their compositions and peptizing mechanisms were quite different.

**Key words:** complex peptizer; NR; Mooney viscosity; Mooney relaxation

### 固特异和西门子开发轮胎气压报警软件

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英国《欧洲橡胶杂志》2002 年 184 卷 4 期 12 页报道:

固特异和西门子 VDO 汽车公司合作开发了一种新的轮胎气压监控软件,它能在汽车仪表盘上显示两个级别的警告信息。

在非危险情况下,例如汽车在超载高速行驶时,该装置将建议司机提高轮胎气压。当它探测到轮胎处于比较危险的状况时,该装置将显示轮

胎的气压临界值和校正危险状况所需的计算行驶距离。

该软件可分析众多的汽车参数,根据环境温度和压力、轮胎负荷、速度和驾驶习惯等数据计算轮胎的推荐用气压。

警告信息级别取决于当前轮胎气压、气压泄漏率的评估、气压低于推荐值以后行驶的时间和距离等因素。

(涂学忠摘译)