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Preparation and Properties of Natural Rubber-Illite/ Montmorillonite Clay Composite

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Abstract: In this study, the preparation and properties of natural rubber (NR) -illite/montmorillonite clay (YM) composite (NR-YM) were introduced. The results showed that compared with NR, NR-YM had a higher ash content, similar volatile content and nitrogen content. Compared with NR compound, the crosslinking density of NR-YM compound was higher, the processing safety performance, modulus at 300% elongation, tensile strength, wear resistance and heat aging resistance were improved. With the increase of YM amount, the tensile strength, wear resistance and heat-oxygen aging resistance of NR-YM compound were firstly improved and then decreased. With 8 phr YM, the comprehensive properties of NR-YM compound were the best.

Key words: natural rubber; natural latex; clay; composite; wear resistance; aging resistance performance

2017年我国橡胶促进剂进出口概况

中图分类号:TQ330.38⁺5 文献标志码:D

据中国海关统计,2017年我国橡胶促进剂的总进口量为2.09万t,同比增长26.67%;进口金额为8 140.04万美元,同比增长13.98%;进口单价为3 899.40美元·t⁻¹,同比降低9.74%。其中,来自日本的促进剂进口量为0.16万t,占促进剂总进口量的7.66%,同比增长6.67%;来自韩国的促进剂进口量为0.35万t,占促进剂总进口量的16.75%,同比增长40.00%;来自中国台湾的促进剂进口量为0.71万t,占促进剂总进口量的33.97%,同比增长69.05%;来自德国的促进剂进口量为0.21万t,占促进剂总进口量的10.05%,同比增长16.67%。

2017年我国促进剂的总出口量为12.97万t,同比增长7.90%;出口金额为42 264.51万美元,同比增长17.32%;出口单价为3 258.36美元·t⁻¹,同比增长8.72%。其中,对美国的促进剂出口量为1.64万t,占促进剂总出口量的12.64%,同比降低2.96%;对泰国的促进剂出口量为1.52万t,占促进剂总出口量的11.72%,同比增长31.03%;对韩国的促进剂出口量为1.10万t,占促进剂总出口量的8.48%,同比降低12.00%;对印度的促进剂出口量为0.80万t,占促进剂总出口量的6.17%,同比增长25.00%;对巴西的促进剂出口量为0.80万t,占促进剂总出口量的6.17%,同比降低9.59%。

(崔小明)

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