LAK BO‘YOQ MATERIALLARNING QO‘LLANILISHI

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Hozirgi paytda LBM-larning nafaqat hajmi, balki ularning assortimenti tubdan o‗zgardi: sintetik plyonka hosil qiluvchilarning ulushi oshib, mahsulotlarning yangi turlari (suvli dispersion, kukunsimon bo‗yoqlar va b.) yaratildi [1].

LBM-larni ishlab chiqarishda sintetik plyonka hosil qiluvchilardan foydalanish ushbu sanoat xom-ashyo bazasini kengaytirishga, sifatli va ishlatishga chidamli mahsulotlar ishlab chiqarishga imkon berdi [2]. Natijada sanoat miqyosida uzoqqa chidamli, atmosfera omillariga chidamli, issiqqa chidamli, kimyoviy muhitlarda chidamli qoplamalar, zamonaviy texnika talablariga to‗liq javob bera oladigan dekorativ xossalarga ega bo‗lgan lok va bo‗yoqlar ishlab chiqarish muammosi echildi [3]. Poliefirlar, epoksidli oligomerlar, oligouretanlar, oligoorganosiloksanlar, politetraftoretilen (PTFE) va boshqa materiallar asosida ishlab chiqarilayotgan lok va bo‗yoq mahsulotlari ishlab chiqarilyapti [4].

Kelajakda polikondensatlanish yo‗li bilan olingan sintetik plyonka hosil qiluvchilar asosida LBM-lari ishlab chiqarish (masalan, poliefirli, fenoformaldegidli va boshqalar), hamda arzon va yirik tonnali polimerlanish usulida olinadigan plyonka hosil qiluvchilar asosida LBM-larni ishlab chiqarishni ko‗paytarish nazarda tutilgan [5]. Bu esa, o‗z navbatida, o‗simlik moylaridan foydalanishni keskin kamaytarish imkonini beradi [6].

Atrof-muhitni turli kimyoviy ifloslanishlardan muhofaza qilish muammosi o‗z echimini kutayotgan dolzarb muammolardan hisoblanadi [7]. Qimmatbaho va zaharli organik erituvchilardan foydalanishni kamaytarish uchun suvda suyultiruvchi, suvli emulsiya va kukunsimon materiallardan ko‗proq foydalanish yo‗li bilan ushbu muammo echilishi mumkin [8].

Olimlarimizning hisob-kitoblariga ko‗ra, dunyoda yiliga qazib olinadigan metallning 10% korroziya (emirilish) tufayli yo‗qoladi [9]. Metall buyumlari yuzasining 80% ini LBM-lari bilan qoplanadi va korroziyadan muhofazalanadi [10].

MDH mamlakatlarida, yiliga 3mln.tonnadan ortiqroq LBM-larning 2 mingdan ortiq turlari ishlab chiqariladi [11]. Bu miqdor yer ekvatori bo‗ylab, kengligi 100m.ga teng yuzaga LBM-larini etkazish imkonini beradi [12]. Ammo bu, xalq xo‗jaligining turli tarmoqlarini LBM-lariga bo‗lgan ehtiyojini qondirishga yetarli emas [13-14]. Ushbu muammoni ikki yo‗l bilan: birinchidan, LBM-lari sifatani oshirish, ya‘ni ularning uzoq muddatga chidamliligini oshirish yo‗li bilan; ikkinchidan, LBM-larni etkazishning eng samarali usullarini ishlab chiqish yo‗li bilan echish mumkin. Bu esa material sarfini 2-3 marta kamaytarishga va yiliga 150-200 ming tonna LBM-larini tejash imkonini beradi [15-16].

Bugunki kunda yangi, ishlatishga chidamli va sifatli LBM-larini sintez qilish, ularni buyum yuzasiga yotqizish usullarini takomillashtirish, muhofaza qilish ta‘siri mexanizmini tadqiq etash muammolarini echish uchun ilmiy-tadqiqot ishlari jadal olib borilmoqda [17-18]. Tarkibida zaharli va yonuvchan organik erituvchilar saqlanmagan, suvda eruvchan, suv bilan suyultiriladigan va kukunsimon LBM-larini yaratishga alohida e‘tibor qaratilyapti [19-20].

FOYDALANILGAN ADABIYOTLAR:

1. Turayev S. et al. The importance of modern composite materials in the development of the automotive industry //Asian Journal of Multidimensional Research (AJMR). – 2021. – T. 10. – №. 3. – C. 398-401.

2. Turaev S. A., Rakhmatov S. M. O. Introduction of innovative management in the system of passenger transportation and automated system of passenger transportation in passenger transportation //Asian Journal of Multidimensional Research. – 2022. – T. 11. – №. 3. – C. 34-38.

3. Ahmadjonovich T. S. et al. THE ROLE OF COMPOSITE MATERIALS USED IN AUTOMOBILE DEVELOPMENT //Scientific Impulse. – 2022. – T. 1. – №. 4. – C. 409-414.

4. Turaev S. A., Aminboyev A. S. O. Light automobile steel wheel manufacturing technology //Asian Journal of Multidimensional Research. – 2022. – T. 11. – №. 3. – C. 25-30.

5. Тўраев Ш. А. Автомобилларда ишлатиладиган пластик деталларига қўйиладиган талаблар ва уларнинг механик хоссаларини тадқиқ қилиш. – 2022.

6. Тўраев Ш. А. Автомобиль втулкаларининг ҳар хил полимер материалларини ейилишини аниқлаш. – 2021.

7. Avazbekovich I. N., Ahmadjonova T. S., Valerevich A. A. To determine the ingesting of various polymer materials of automobile cartridges //ACADEMICIA: An International Multidisciplinary Research Journal. – 2020. – T. 10. – №. 11. – C. 1572-1575.

8. Turaev S. Pressure of car parts from polymeric materials and loading of production factors on it //Asian Journal of Multidimensional Research. – 2022. – T. 11. – №. 5. – C. 138-147.

9. Ahmadjonovich T. S. PROPERTIES OF COMPOSITE POLYMER MATERIALS AND COATINGS USED IN AUTOMOBILES //PEDAGOGICAL SCIENCES AND TEACHING METHODS. – 2023. – T. 2. – №. 19. – C. 160-168.

10. Zokirov D., TO’YINGAN G. I. T. S., QUVURO‘TKAZGICHLARINI U. Y. Y. E. R. O. HISOBLASH//SAI. 2022.№ A6 //URL: https://cyberleninka.ru/article/n/trassaning-suvga-to-yingan-uchastkalarida-yotqiziladigan-yer-osti-quvuro-tkazgichlarini-hisoblash (датаобращения: 14.10. 2022).

11. Dostonbek, Zokirov, and Mamasoliyev Bunyodbek. "Examination of Vehicles Carrying Fast-Breaking Cargo." Eurasian Research Bulletin 14 (2022): 25-29.

12. Shermuxamedov U. Z., Zokirov F. Z. APPLICATION OF MODERN, EFFECTIVE MATERIALS IN RAIL ROAD REINFORCED BRIDGE ELEMENTS //Journal of Tashkent Institute of Railway Engineers. – 2019. – Т. 15. – №. 3. – С. 8-13.

14. Shermuxamedov U. Z., Zokirov F. Z. APPLICATION OF MODERN, EFFECTIVE MATERIALS IN RAIL ROAD REINFORCED BRIDGE ELEMENTS //Journal of Tashkent Institute of Railway Engineers. – 2019. – Т. 15. – №. 3. – С. 8-13.

15.ШермухамедовА. А.,БайназаровХ. Р. УСОВЕРШЕНСТВОВАНИЯКОНСТРУКЦИИАВТОТРАКТОРНЫХСАМОСВАЛЬНЫХПРИЦЕПОВ //The 4th International scientific and practical conference “Science and education: problems, prospects and innovations”(December 29-31, 2020) CPN Publishing Group, Kyoto, Japan. 2020. 808 p. – 2020. – С. 760.

16.Shermukhamedov, A. A., & Baynazarov, K. R. (2021). Graphic-analytical method for calculating the distribution of forces over the frame in the working process of the unloading.Scientific-technical journal, 4(2), 79-86.

17.Baynazarov, H. R., & Shermukhamedov, A. A. (2021). EXPERIMENTAL RESEARCH OF THE HYDRAULIC SYSTEM OF THE UNLOADING DEVICE OF TRAILERS.Scientific-technical journal, 4(3), 41-48.

18.Шермухамедов, А. А.,&Байназаров, Х. Р. (2020, December). УСОВЕРШЕНСТВОВАНИЯ КОНСТРУКЦИИ АВТОТРАКТОРНЫХ САМОСВАЛЬНЫХ ПРИЦЕПОВ. In The 4th International scientific and practical conference “Science and education: problems, prospects and innovations”(December 29-31, 2020) CPN Publishing Group, Kyoto, Japan. 2020. 808 p. (p. 760).

19. To‘rayev, Sh A DETALLARNING ISHLANMASINI QAYTA TIKLASH USULLARI, VA QO'LLANILISH SOHALARI. 2023/10/16 PEDAGOG 1-7p.

20. Qosimov, I., Sh To‘raevlar. "ZAMONAVIY AVTOMOBILLARINING RUL TORTQILARIDA QO'LLANILADIGAN KOMPOZITSION POLIMER MATERIALLARI." Scientific Impulse 1.10 (2023): 1854-1856.