Abstract:

JFE Steel developed and commercialitied a resin-lm laminated steel sheet called UNIVERSAL BRITE Type E which is applicable to large cans such as 18 l cans and pail cans using a newll-developed 2-later

na ed eel hee in he 18 *l* can and pail can feld incl de a prod c hich i man fac red b he can maker in 1- hee ni b lamina ing a hick pol e h lene (PE) flm o elec rol icall chromi m coa ed eel (ECCS) in hee form, and a prod c made b laminaing a hick flm of random pol prop lene (PP) (PP-PE random copol mer) on ECCS b direcer ion of he mol en re in from a T-die. In boh cae, e of he e prod c i limied o ome high grade can de ohe high co of he re in, and he hae no reached he age of ide pop laria ion a an alernaie opained can, hich are ine pen ie and are ed in large n mber.

Again hi backgro nd, JFE S eel a he r in he orld o de elop and commerciali e a ne re in lm-lamina ed eel hee, UNIVERSAL BRITE T pe E (ecolog), hich fea re a lo er o al canmaking co han pain ed can and i applicable o ario con en from acidic o alkaline, aiming a pop laria i on of lm-lamina ed 18 l can and pail can.

2. Concept of Laminated Film Design

Unlike con en ional be erage can and food can application, hen Im-lamina ed eel hee are applied of 18 l can and pail can, he material mate

In man cae, he e erior of he can i lacq erpain ed o indicae he con en or impar de ign feare. Ho e er, if he heare i ance of he lm i inadeq ae, icking in he o en de o lm mel ing become a problem. Al ho gh here ha been rend o ard lo er baking empera re in recen ear a a mean of a ing

energ, he baking empera re i n -1.33 eT019.4 T20 TD20 n e i a a mean1T -1f a30 T ()T h1.016227 TD0.0125 Tc0...

homo-PP and block PP, hich ho ed e cellen hea

6. Status of Practical Application and Development of Expanded Range of Applications

The fr order for UNIVERSAL BRITE T pe E from a large man fac rer of 18 l can a recei ed in Ma 2002, and ale ol me ha increa ed eadil ince ha ime. The 18 l can and pail can ho n in Pho o 1 i an e ample of can-making of elded can ing ECCS for elded can (JFE BRITE) a he ba e ma erial, a a eel hee hich enable grinding-free elding. In addi ion o di pla ing e cellen corro ion re i ance for a ide range of con en from acidic o alkaline, incl ding rfac an , hi prod c al o reali e high pre re-re i ing reng h, clearing he andard of he Ha ardo Ma erial Safe Techniq e A ociaion, and ha earned a high e al a ion from c omer. Thi echnolog a repor ed on he fron page of Me al & Technolog of Oc. 15, 2002, and recei ed n mero re pon e.

Among he applica ion of 18