

High Clarity Polymer of Scratch Resistance for Panorama Roof System

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High clarity polymer alloy of polycarbonate(PC) and modified polyester (mPET) was prepared by low shear extrusion processing technique that was able to melt mix PC and mPET at 10 to 20°C lower than conventional extrusion processing temperature. Novel PC/mPET blend maintains excellent clarity and also improved scratch resistance. In addition, silane surface modifications improve scratch resistance up to 3H in pencil hardness without sacrificing clarity so that, it can be fabricated into transparent molded articles applied for panorama roof window and various appliance applications.