control over the ber alignment and limited des it grueling to achieve tunable mechanical parce being essence polymer mongrel structures are sul on joining at the interfaces rather than intertwin polymer to produce a new set of cold-blooded str mechanical interlocking. A new cumulative manufmolding (AM- CM) process exploiting design fr

Commentary

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An Original Added Substance Producing Pressure Overmolding Process for Crossover Metal Polymer Composite Designs

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^{*}Corresponding author: Danish Kumar, Manufacturing Science Division (MSD), Oak Ridge National Laboratory (ORNL), Knoxville, TN, 371 1 Tf[Al0 USA,ILtgaiio-0.8 operations. Still, the mechanical parcels are limited by the interfacial cling strength betweer achieved through bonds, welding, and face treatment processes. In this paper, a new combining cumulative manufacturing and contraction molding to gain cold-blooded esset enhanced mechanical parcels is presented. Cumulative manufacturing enabled deposit of ,|æ{^}e-ki}/ækå^ed}^a/a arcels/ak]@@w^1/kc[i-[1{kæ&k}[{cta&ci}/k {@ta*i}*k•, [tálciæ}**]#tk@@w•i*ki*k,!•cf-æàl&@wa^**i}*kC£å@W]kØ[[{W]H1€k!æ^*k*!^æ* &[]cta&ci]/k[c^*!{[lå^åk_i@l@wååkicc]^k{@}*-æ&c**/ak][}*k@aia]/k,a^tEk{[![a]tæc^åk][^* @}ja*_[1{tW0^k-æàl&@cc*i}*ie@kååkicc]^{k}@]*-æ&c**/ak][]*{k@aia]}*k@aia*i}*a** @}ak@is@kac^iie@kååkacc^{{i}} aka]!**/ka** 20 divagation. Fractographic analyses was performed using microscopy to probe failure m blooded structures.

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control o ered by the AM process to gain acclimatized preforms and contraction overmolding them onto metallic chassis to produce mechanically interlocked cold-blooded structures at scale without the need of bonds or precious face treatments is developed in this study [6].

Materials and Methods

Manufacturing process

In this study, maraging sword and carbon ber corroborated polyamide-,6 (40 wt. CF/ PA66) were used to demonstrate the new manufacturing process. First, triangular chassis structures with a side length of11.5 mm, strut consistence of0.5 mm, and an eschewal of aeroplane consistence of 4 mm and 13 mm were fabricated using