医疗级TPEE SC948美国杜邦

产品名称	医疗级TPEE SC948美国杜邦
公司名称	东莞市华韵塑胶原料有限公司
价格	41.00/kg
规格参数	品牌:耐低温撞击性 型号:弹性好 产地:海翠料
公司地址	东莞市樟木头镇奥园塑金国际8栋214
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产品详情

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Application of TPEE products: TPEE is mainly used in areas requiring shock absorption, impact resistance, flex resistance, sealability and elasticity, oil resistance, chemical resistance, and adequate strength. Such as: Polymer modified, automobile parts, high and low temperature resistant wire sheath, hydraulic hose, shoe material, transmission belt, rotary molded tire, flexible joint, muffler gear, elevator slide, chemical equipment, pipeline valve, parts of anti-corrosion wear-resistant high and low temperature materials. TPEE is made by the copolymerization of terephthalic acid, 1,4-Butanediol, and polybutanol. The increase of the hard segment ratio can enhance the physical rigidity and chemical stability, the flexibility and low temperature performance can be improved by increasing the proportion of soft segment. Skypel is the trade name of SK Chemical Company for its engineering Thermoplastic elastomer. It is an ESTER system of Thermoplastic Elastomer, its flexibility and elastic resilience is similar to rubber, and mechanical strength, heat resistance and weather resistance than rubber. No vulcanization engineering, and the same as ordinary thermoplastic resin, with easy molding processing resin according to the usual polyester synthesis method to properly adjust the content of the flexible segment of the COPOLYMER, so as to form a flexible and mechanical materials suitable for various uses.

1 简介

TPE E（热塑性 聚酯 弹性体）是含有聚酯硬段和 聚醚 软段的嵌段共聚物。其中聚醚软段和未结晶的聚酯形成无定形相聚酯硬段部分结晶形成结晶微区，起物理交联点的作用。TPEE具有橡胶的弹性和工程塑料 的强度；软缎赋予它弹性使它象橡胶；硬段赋予它加工性能，使它象塑料；与橡胶相比，它具有更好的加工性能和更长的 使用寿命
；与工程料相比，同样具有强度高的特点，而柔韧性和动态力学性能更好。 1．力学性能，通过对软硬段比例的调节，TPEE的硬度可以从邵氏30-82D，其弹性和强度介于橡胶和塑料之间。与其它热塑性弹性体 相比，在低应变条件下，TPEE 模量
比相同硬度的其它热塑性弹性体高。当以模量为重要的设计条件时，用TPEE可缩小制品的 横截面积，减少材料用量。TPEE具有极高的 拉伸强度 。与聚氨酯(TPU)相比，TPEE 压缩模量 与 拉伸模量 要高

得多用相同硬度的TPEE和TPU制作同一零件前者可以承受更大的负载。在室温以上，TPEE弯曲模量很高，而低温时又不象TPU那样过于坚硬因而适宜制作悬臂梁或扭矩型部件，特别适合制作高温部件。TPEE低温柔顺性好低温缺口 冲击强度 优于其他TPE，耐磨耗性与TPU相当。在低应变条件下，TPEE具有优异的耐疲劳性能且滞盾损失少，这一特点与高弹性相结合，使该材料成为多次循环负载使用条件下的理想材料，齿轮、胶辊、挠性联轴节、皮带均可采用。

2. Thermal properties, TPEE has excellent heat resistance, the higher the hardness, the better the heat resistance; TPEE has no loss of weight for 10 hours at 110 ~ 140 ° C, and only 0.05% and 0.1% loss for 10 hours at 160 ° C and 180 ° C respectively, so TPEE has a very high temperature, short-term use temperature is higher, can adapt to the automotive production line baking temperature 150 ~ 160 ° C, and it in high and low temperature, mechanical properties, loss is small. The tensile strength of TPEE is much higher than TPU when used at above 120 ° C. Moreover, TPEE has excellent low temperature resistance. The Brittle point of TPEE is lower than-70 ° C and the lower the hardness is, the better the cold resistance is. Most TPEE can be used at-40 ° C for a long time. Due to the equilibrium performance of TPEE at high and low temperatures, its operating temperature range is very wide and can be used at-70 ~ 200 ° C. 3. Resistance to chemical media, oil resistance of TPEE, resistance to most polar liquid chemical media such as acids, bases, and amidodiols at room temperature, but not to halogenated hydrocarbons, except freon, and the role of phenols, its chemical resistance increases with the increase of its hardness. TPEE is good for most organic solvents, fuels and gases, and is only 1 / 3 to 1 / 300 of the oil-resistant rubber, such as Neoprene, Hypalon and nitrile rubber, but it is not good for hot water, the hydrolysis resistance can be improved obviously by adding polycarboimide stabilizer. Weather Resistance, and aging resistance, TPEE in a lot of different conditions, such as water fog, ozone, outdoor atmospheric aging conditions, chemical stability, good. As with most elastomers, it degrades under ultraviolet light, so for outdoor applications or products exposed to sunlight, UV protection AIDS should be added to the formulation, including carbon black, and a variety of pigments or other shielding materials; in addition TPEE also has varying degrees of hydrolysis.