

POE 3000

产品名称	POE 3000
公司名称	东莞市晶宏塑胶原料有限公司
价格	.00/KG
规格参数	生产厂商:美国埃克森美孚 牌号:3000
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产品详情

POE 3000--As a new type of high-end plastic raw material, POE plays an increasingly important role in industrial production. Since the technology of preparing thermoplastic elastomers by automatic vulcanization was put forward by A.N. Gessler and other scholars in 1962, its rapid development has attracted wide attention. The technology was further developed by Fisher [2] of Uniroyal Corporation and Professor A.Y. Coran of Akron University in the 1983s. Because of the special phase structure formed by dynamic vulcanization, the elastomer has the advantages of both plastics and thermosetting rubber: the continuous phase in the elastomer provides excellent processing performance, while the rubber particles as dispersed phase make the material have the unique high elasticity of rubber. Simple dynamic vulcanization process also saves a lot of manpower and energy resources. Its products are widely used in various sealing materials, hoses, automotive accessories, shoes, wires and cables, civil construction and household appliances and other fields.

的说明:聚烯烃弹性体(Polyolefin elastomer)(POE)是美国DOW化学公司以茂金属为催化剂的具有窄相对分子质量分布和均匀的短支链分布的热塑性弹性体。这种弹性体的主要性能非常突出,在很多方面的性能指标超过了普通弹性体。POE分子结构与三元乙丙橡胶(EPDM)相似,因此POE也会具有耐老化、耐臭氧、耐化学介质等优异性能,通过对POE进行交联,材料的耐热温度被提高,永久变形减小,拉伸强度、撕裂强度等主要力学性能都有很大程度的提高。多用途的POE弹性体能够超过PVC、EVA、SBR、EMA和EPDM,今后POE可能取代传统的EPDM。

POE采用溶液法聚合工艺生产的,其中聚乙烯链结晶区(树脂相)起物理交联点的作用,一定量的辛烯的引入削弱了聚乙烯链的结晶区,形成了呈现橡胶弹性的无定型区(橡胶相)。聚合物的微观结构决定其宏观性能,与传统聚合方法制备的聚合物相比,一方面它有很窄的相对分子质量分布和短支链,因而具有优异的物理机械性能(高弹性、高强度、高伸长率)和良好的低温性能;又由于其分子链是饱和的,所含叔碳原子相对较少,因而具有优异的耐热老化和抗紫外线性能;窄的相对分子质量分布使材料在注射和挤出过程中不易产生挠曲。另一方面,限定几何构型催化剂技术(CGCT)可以控制在聚合物线型短支链支化结构中引入长支链,从而改善了聚合物的加工流变性能,还可以提高材料的透明度。