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聚脂彈體 POLYESTER ELASTOMER TPE KOPEL® KP3355

KOPEL®【POLYESTER ELASTOMER】熱塑性聚脂彈體是一種結合傳統橡膠及塑膠特性的工程塑料，軟硬度由攝氏40D至72D。此物料的柔軟性及回彈力與橡膠相同，但其加工成型則比橡膠優越。在機械性能方面一如耐熱，耐氣候及在紫外光下的穩定性則遠比橡膠所表現為佳。

KOPEL®【POLYESTER ELASTOMER】combine the properties of thermoplastic rubber and engineering plastic, the available range of hardness between 40D and 72D. Tension and compression set resistance of TPE is as good as thermoplastic rubber. However, the processing ability the mechanical properties are much better than thermoplastic rubber.

其特性包括：

The properties of TPE are as follow :

- 極容易加工注塑及可循環再用
- Processing ease and recyclable
- 性質柔軟及回彈性極佳
- Tension and compression set resistance
- 低溫下【可低至-50°C】的柔軟保持性高
- Good low temperature flexibility【-50°C】
- 耐衝擊及機械強度佳
- Good impact strength
- 無毒性
- Non-toxic
- 疲勞抗阻力極佳、耐氣候、耐化學品及耐熱性能高
- Good abrasion, weather, chemical and high heat resistance

性能 Properties	測試方法 Test Method	單位 Units	KOPEL KP3355
比重 Specific Gravity	ASTM D-792 DIN 53479	-	1.19
硬度 Hardness, Rockwell	ASTM D-2240 DIN 53505	Shore D	55
熔融流動率 Melt Flow Index	ASTM D-1238	g/10min	18 ¹⁾
融點 Melting Point	DSC	°C	200
脆化溫度 Solenoid Brittle Point	ASTM D-746	°C	< -70
引張強度 Tensile Strength	ASTM D-638 DIN 53504	kg/cm ²	360
延伸率 Elongation	ASTM D-638 DIN 53504	%	650
屈曲彈性率 Flexural Modulus	ASTM D-790	kg/cm ²	1,800
衝擊強度 Izod Impact Strength (notched)	ASTM D-256	-40°C	NB
		23°C	NB
磨耗度 Abrasion Resistance CS-17 WHEEL	ASTM D-1044	mg/10cyc	5
反撥彈性率 Resilience	—	%	55
熱變形溫度 Heat Distortion Temperature	4.6kg/cm ² ASTM D-648	°C	120
吸水率 Water Absorption	ASTM D-570	%	0.5
燃燒性 Flammability	UL-94	—	HB (1.5mm)
成形收縮率 Mould Shrinkage	ASTM D-955	%	1.1 – 1.3 ³⁾

上列數據僅供參考，並不為此承擔任何責任和保證。

The data are intended as a general guide only, makes no guarantee of results and assumes no obligation or liability.