## ZERO<sup>™</sup> Impact Protection

#### Mitigate Fear. Protect Your Devices.

D3O Zero is D3O's most sustainable protective material, designed for phone, tablet, smartwatch cases and more.

The innovative material boasts the same reliable D3O impact protection and crystal clarity making it suitable for both clear and coloured styles.

### **Material Features**

- 99% recycled
- D3O's most sustainable material
- GRS certified

**D30**°

- Locally Sourced
- Suits clear and coloured styles



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# **ZERO**<sup>™</sup>

### **Impact Protection**

### **Material Properties**

	Method reference*	Test Condition	D30 Zero
Density (kg/m³)	ISO 845:2009	-	1.2
MFR (g/10 min)	ISO 1133	200°C, 2.16 kg	9.6
MFI (g/10 min)	-	49.05N@210C	28
Hardness (Shore A)	ASTM D2240 - 05 (2010)	3s	93.6
Tensile Strength at Break (MPa)	ISO 37:2017 Type 1	500mm/min	35.8
Tensile Elongation at Break (%)	ISO 37:2017 Type 1	500mm/min	450
Tear Strength (N/mm)	ASTM D624 Type T	50mm/min	65.6
Flexural Modulus (kPa)	DTS052	-	
Shrinkage (%)	-	130°C	0.731
Abrasion Resistance (mg/100 cycles)	ISO 5470-1	H18, 9.8N	
Transparency (%)	DTS086	-	
Recycled (%)	-	-	99%
Suitable for opaque coloured products	-	-	√
Suitable for translucent products	-	-	√
Suitable for clear products	-	-	√

### **Injection Moulding Conditions**

**D30**°

Drying Conditions	Temperature (°C)	80-90	
	Time (h)	4	
	Equipment	Dehumidified drying oven (vacuum)	
Injection Moulding Conditions	Feeder Temperature (°C)	190-200	
	Zone 1 Temperature (°C)	200-210	
	Zone 2 Temperature (°C)	200-210	
	Nozzle Temperature (°C)	205-215	

To achieve optimum results, it is advised that the moisture content of the resins should be below 0.02%.



D30

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