

SKYPEL
Engineering Thermoplastic Polyester Elastomer
Technical Data Sheet

SKYPEL G155D

Table 1. PROPERTIES OF SKYPEL G155D

Properties	ASTM No	Units	G155D
Forms			Pellet
Specific Gravity	D792	-	1.18
Hardness	D2240	Shore D	55
Tensile Strength at Break ¹⁾	D638	kgf/cm ²	400
@ 5% Strain ¹⁾			65
@ 10% Strain ¹⁾			115
Elongation at Break ¹⁾	D638	%	600
Tear Strength ²⁾	D1004	kN/m	165
Flexural Modulus ³⁾	D790	kgf/cm ²	2,100
Melting Point ⁴⁾	D3418	°C	202
Heat Distortion Temperature ⁵⁾	D648	°C	105
Melt Flow Rate (220 °C, 2.16 kg)	D1238	g/10min	11

The evaluated results are for this trial product only. All data and specifications can be modified or changed in future.

1) ASTM Type IV dumbbells diecut from injection molded slab 2mm thick. Crosshead speed 50mm/min.

2) Specimen 2mm thick. Crosshead speed 51mm/min

3) Crosshead speed 1.3mm/min.

4) Differential Scanning Calorimeter (DSC), peak of endotherm. Heating rate 10°C/min.

5) Load 4.6kg/cm².

Table 2. PROCESSING CONDITIONS OF SKYPEL G155D

INJECTION	Cylinder			Nozzle	Mold
	Rear	Center	Front		
	205 °C	215 °C	220 °C	225 °C	35 °C
EXTRUSIION	Cylinder			Die	Melt
	Rear	Center	Front		
	195 °C	210 °C	210 °C	210 °C	215 °C