

SKYPEL P155DF

DESCRIPTION

SKYPEL P155DF is a thermoplastic polyester elastomer resin superior heat resistance. SKYPEL P155DF with a medium 55D hardness based on shore D scale is widely used for injection molding and extrusion applications. And SKYPEL P155DF is also available to overmold TPU, PC, ABS, PC/ABS alloys.

Physical properties

Properties	ASTM No	Units	P155DF
Hardness (max)	D2240	Shore D	55
Specific gravity	D792	-	1.21
Water absorption, 24hr	D570	%	0.9
Mold shrinkage	D955	%	1.7
Tensile Stress at 5% Strain ¹⁾	D638	kgf/cm ²	90
Tensile Stress at 10% Strain ¹⁾	D638	kgf/cm ²	140
Tensile Stress at Break ¹⁾	D638	kgf/cm ²	300
Elongation at Break ¹⁾	D638	%	> 400
Flexural modulus ²⁾	D790	kgf/cm ²	2,000
Tear strength ³⁾	D1004	kN/m	130
Izod impact strength / notched ⁴⁾	D256	kgfcm/cm	N.B
Resilience ⁵⁾	D2632	%	54
Melting Point ⁶⁾	D3418	°C	217
Heat distortion temperature ⁷⁾	D648	°C	125
Melt Flow Rate Temperature, °C / 2.16kg	D1238	g/10min °C	22 230

- 1) ASTM Type IV dumbbells diecut from injection molded slab 2mm thick. Crosshead speed 50mm/min.
- 2) Crosshead speed 1.3mm/min.
- 3) Specimens 2mm thick. Crosshead speed 51mm/min.
- 4) Specimens 6.35mm thick. 'N.B.' means 'not broken'.
- 5) Vertical rebound.
- 6) Differential Scanning Calorimeter (DSC), peak of endotherm. Heating rate 10°C/min.
- 7) Load 4.6kg/cm²

General purpose processing condition

Injection	Cylinder	Rear	°C	225	Extrusion	Cylinder	Rear	°C	215
		Center		235			Center		
		Front		235			Front		230
	Nozzle			240		Die			230
	Mold			40		Melt			235

All data reported here are believed to be correct. However, this should not be accepted as a guarantee of their accuracy.