

Estane® 2103-80PF TPU

TPU

Lubrizol Advanced Materials Spain S.L.

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Melt Flow Index, MFI	39	g/10min	ASTM D 1238
Temperature	190	°C	-
Load	8.7	kg	-
Mold Shrinkage, MD	0.0055	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.0015	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ASTM Data			
Modulus at 100% Elongation	5.17	MPa	ASTM D 412
Modulus at 300% Elongation	7.93	MPa	ASTM D 412
Shore A Hardness	84	-	ASTM D 2240
Tear Strength	78.8	kN/m	ASTM D 624
Taber Abrasion Resistance	5	mg/1000 cycles	ASTM D 1044
Compression Set , 22 hr @ 73 °F	25	%	ASTM D 395
Compression Set , 22 hr @ 158 °F	80	%	ASTM D 395

Thermal properties	Value	Unit	Test Standard
ASTM Data			
Coefficient of Thermal Expansion, MD	171	E-6/K	ASTM D 696
Glass Transition Temperature	-46.1	°C	ASTM E 1356
Vicat Temperature	68.9	°C	ASTM D 1525

Other properties	Value	Unit	Test Standard
Density	1100	kg/m ³	ASTM D 792

Characteristics**Processing**

Injection Molding, Film Extrusion, Profile Extrusion

Regional Availability

North America, Europe, Asia Pacific