

Estane® R180A TPU

TPU

Lubrizol Advanced Materials Spain S.L.

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	0.02	mm/mm	ASTM D 955
Mechanical properties			
ISO Data			
Abrasion resistance	35	mm ³	ISO 4649
ASTM Data			
Modulus at 100% Elongation	4.9	MPa	ASTM D 412
Modulus at 300% Elongation	2.61	MPa	ASTM D 412
Shore A Hardness	83	-	ASTM D 2240
Tear Strength	78.4	kN/m	ASTM D 624
Compression Set , 22 hr @ 73 °F	15	%	ASTM D 395
Compression Set , 22 hr @ 158 °F	45	%	ASTM D 395
Thermal properties			
ASTM Data			
Vicat Temperature	27.8	°C	ASTM D 1525
Other properties			
Density	1080	kg/m ³	ASTM D 792

Characteristics**Processing**

Injection Molding, Other Extrusion

Regional Availability

North America, Europe, Asia Pacific

Certifications

Food contact, Food approval FDA 21 CFR