

Pearlthane® Clear 15N80

TPU

Lubrizol Advanced Materials Spain S.L.

Product Texts

PEARLTHANE® CLEAR 15N80 is used for making films, cables, tubing, profiles and different technical parts. To improve the microbiological protection of PEARLTHANE® CLEAR 15N80, it is necessary to add a biocide, preferably in form of TPU-based masterbatch.

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Stress at 100% elongation	5	MPa	ISO 527
Stress at 300% elongation	24	MPa	ISO 527
Stress at break TPE	35	MPa	ISO 527
Strain at break TPE	>300	%	ISO 527
Compression set at 23 °C, 24h	24	%	ISO 815
Compression set at 70 °C, 24h	38	%	ISO 815
Abrasion resistance	25	mm ³	ISO 4649
Shore A hardness	82	-	ISO 7619-1
ASTM Data			
Tensile Strength at Break	35	MPa	ASTM D 638
Elongation at Break	740	%	ASTM D 638
Modulus at 100% Elongation	5	MPa	ASTM D 412
Modulus at 300% Elongation	8	MPa	ASTM D 412
Shore A Hardness	82	-	ASTM D 2240
Tear Strength	80.5	kN/m	ASTM D 624
Compression Set, 22 hr @ 158 °F	38	%	ASTM D 395

Thermal properties	Value	Unit	Test Standard
ISO Data			
Glass transition temperature, 10°C/min	-54	°C	ISO 11357-1/-2

Other properties	Value	Unit	Test Standard
Density	1050	kg/m ³	ASTM D 792

Characteristics

Delivery form

Pellets

Regional Availability

North America, Europe

Chemical Resistance

Hydrolytically Stable