

Pellethane[®] 2363-80AE TPU

Type: Pellethane 2363-80A is a Thermoplastisches Polyurethan-Elastomer

Features: USP Klasse VI^(a)

Eigenschaften	Prüfmethode	Werte ⁽¹⁾
Physikalische		
Spezifisches Gewicht	ASTM D 792	1,12
Schwindung (1,6 mm dicke Platten) in Fliessrichtung, % quer zur Fliessrichtung, %		0,5–0,6 0,1–0,4
Mechanische		
Durometer Härte, Shore A	ASTM D 2240	85A
Zug-E-Modul bei 50% Dehnung, MPa 100% Dehnung, MPa 300% Dehnung, MPa	ASTM D 412	4,8 6,1 10,3
Zugfestigkeit, MPa	ASTM D 412	28,9
Reissdehnung, %	ASTM D 412	650
Zugverformungsrest, %	ASTM D 412	70
Weiterreissfestigkeit, KN/m	ASTM D 624	73,6
Druckverformungsrest 22 Stunden bei 25 °C, % 22 Stunden bei 70 °C, %	ASTM D 395 Methode B	30 80
Taber Abriebfestigkeit, 1000 g, 1000 Zyklen; H-22 Rad (grob), mg	ASTM D 1044	30
Biege-E-Modul, MPa	ASTM D 790	–
Thermische		
Vicat Erweichungstemperatur, °C	ASTM D 1525	81,7
Linearer Wärmeausdehnungskoeffizient, 10 ⁻⁶ mm/mm/°C	ASTM D 696	165
Glasübergangstemperatur, °C	DSC	-47
Rheologische		
Schmelzindex, 190 °C, 8700 g, g/10 min	ASTM D 1238	10
Verarbeitungshinweise		
Empfohlene Trocknungstemperatur, °C		80–95
Empfohlene Schmelztemperatur (Spritzgiessen), °C		190–205
Empfohlene Schmelztemperatur (Extrusion), °C		190–205
Empfohlene Werkzeugtemperatur, °C		15–60

^(a) Dieses Polymer wurde gemäß den Richtlinien der ISO Bioverträglichkeitsprüfungen unterzogen.

⁽¹⁾ Typische Werte – nicht als Spezifikation auszulegen. Der Anwender hat die Ergebnisse durch eigene Tests zu bestätigen.

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