

Pellethane[®] 2363-90A TPU

Type: Pellethane 2363-90A is a Thermoplastisches Polyurethan-Elastomer

Features: USP Klasse VI^(a)

Eigenschaften	Prüfmethode	Werte ⁽¹⁾
Physikalische		
Spezifisches Gewicht	ASTM D 792	1,14
Schwindung (1,6 mm dicke Platten) in Fließrichtung, % quer zur Fließrichtung, %		0,5–0,6 0,5–0,6
Mechanische		
Durometer Härte, Shore D	ASTM D 2240	90A
Zug-E-Modul bei 50% Dehnung, MPa 100% Dehnung, MPa 300% Dehnung, MPa	ASTM D 412	8,3a 11,7 20,7
Zugfestigkeit, MPa	ASTM D 412	40,3
Reissdehnung, %	ASTM D 412	500
Zugverformungsrest, %	ASTM D 412	30
Weiterreissfestigkeit, KN/m	ASTM D 624	100
Druckverformungsrest 22 Stunden bei 25 °C, % 22 Stunden bei 70 °C, %	ASTM D 395 Methode B	25 30
Taber Abriebfestigkeit, 1000 g, 1000 Zyklen; H-22 Rad (grob), mg	ASTM D 1044	10
Biege-E-Modul, MPa	ASTM D 790	75,8
Thermische		
Vicat Erweichungstemperatur, °C	ASTM D 1525	110
Linearer Wärmeausdehnungskoeffizient, 10 ⁻⁶ mm/mm/°C	ASTM D 696	157
Glasübergangstemperatur, °C	DSC	-30
Rheologische		
Schmelzindex, 224 °C, 2160 g, g/10 min	ASTM D 1238	25
Verarbeitungshinweise		
Empfohlene Trocknungstemperatur, °C		90–105
Empfohlene Schmelztemperatur (Spritzgießen), °C		205–220
Empfohlene Schmelztemperatur (Extrusion), °C		–
Empfohlene Werkzeugtemperatur, °C		15–60

^(a) Dieses Polymer wurde gemäß den Richtlinien der US Pharmakopöe XXII Klasse VI Bioverträglichkeitsprüfungen unterzogen.

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

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