

Pellethane[®] 2363-55DE TPU

Type: Pellethane 2363-55D is a Thermoplastisches Polyurethan-Elastomer

Features: USP Klasse VI^(a)

Eigenschaften	Prüfmethode	Werte ⁽¹⁾
Physikalische		
Spezifisches Gewicht	ASTM D 792	1,15
Schwindung (1,6 mm dicke Platten) in Fließrichtung, % quer zur Fließrichtung, %		0,6–0,8 0,6–0,8
Mechanische		
Durometer Härte, Shore D	ASTM D 2240	53D
Zug-E-Modul bei 50% Dehnung, MPa 100% Dehnung, MPa 300% Dehnung, MPa	ASTM D 412	11,7 15,9 29,6
Zugfestigkeit, MPa	ASTM D 412	44,8
Reissdehnung, %	ASTM D 412	450
Zugverformungsrest, %	ASTM D 412	30
Weiterreissfestigkeit, KN/m	ASTM D 624	105
Druckverformungsrest 22 Stunden bei 25 °C, % 22 Stunden bei 70 °C, %	ASTM D 395 Methode B	30 75
Taber Abriebfestigkeit, 1000 g, 1000 Zyklen; H-22 Rad (grob), mg	ASTM D 1044	70
Biege-E-Modul, MPa	ASTM D 790	152
Thermische		
Vicat Erweichungstemperatur, °C	ASTM D 1525	93,9
Linearer Wärmeausdehnungskoeffizient, 10 ⁻⁶ mm/mm/°C	ASTM D 696	141
Glasübergangstemperatur, °C	DSC	–
Rheologische		
Schmelzindex, 224 °C, 2160 g, g/10 min	ASTM D 1238	30
Verarbeitungshinweise		
Empfohlene Trocknungstemperatur, °C		90–105
Empfohlene Schmelztemperatur (Spritzgiessen), °C		200–215
Empfohlene Schmelztemperatur (Extrusion), °C		195–210
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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