

# Pellethane<sup>®</sup> 2363-55D TPU

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

Features: USP Klasse VI<sup>(a)</sup>

Eigenschaften	Prüfmethode	Werte <sup>(1)</sup>
<b>Physikalische</b>		
Spezifisches Gewicht	ASTM D 792	1,15
Schwindung (1,6 mm dicke Platten) in Fließrichtung, % quer zur Fließrichtung, %		0,5–0,6 0,4–0,8
<b>Mechanische</b>		
Durometer Härte, Shore D	ASTM D 2240	55D
Zug-E-Modul bei 50% Dehnung, MPa 100% Dehnung, MPa 300% Dehnung, MPa	ASTM D 412	13,1 17,2 29,5
Zugfestigkeit, MPa	ASTM D 412	47,5
Reissdehnung, %	ASTM D 412	390
Zugverformungsrest, %	ASTM D 412	30
Weiterreissfestigkeit, KN/m	ASTM D 624	114
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	80
Biege-E-Modul, MPa	ASTM D 790	172
<b>Thermische</b>		
Vicat Erweichungstemperatur, °C	ASTM D 1525	109
Linearer Wärmeausdehnungskoeffizient, 10 <sup>-6</sup> mm/mm/°C	ASTM D 696	143
Glasübergangstemperatur, °C	DSC	–
<b>Rheologische</b>		
Schmelzindex, 224 °C, 2160 g, g/10 min	ASTM D 1238	10
<b>Verarbeitungshinweise</b>		
Empfohlene Trocknungstemperatur, °C		90–105
Empfohlene Schmelztemperatur (Spritzgiessen), °C		210–225
Empfohlene Schmelztemperatur (Extrusion), °C		–
Empfohlene Werkzeugtemperatur, °C		15–60

<sup>(a)</sup> Dieses Polymer wurde gemäß den Richtlinien der ISO Bioverträglichkeitsprüfungen unterzogen.

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

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