Isoplast® 202EZ ETPU Engineering Thermoplastic Polyurethane

Lubrizol Advanced Materials, Inc.



Technical Data

Product Description

Type: Isoplast® 202EZ is an engineering thermoplastic polyurethane resin.

Feature: NSF Standard 61 Certified

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General					
Material Status	Commercial: Active				
Literature 1	Brochure - TPU for the food processing industry (English)				
Search for UL Yellow Card	 Lubrizol Advanced Materials, Inc. Isoplast® 				
Availability	 Asia Pacific 	 Latin America 	 North America 		
Agency Ratings	NSF STD-61				
Forms	 Pellets 				

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.20	1.20 g/cm ³	ASTM D792
Molding Shrinkage - Flow	4.0E-3 to 6.0E-3 in/in	0.40 to 0.60 %	ASTM D955
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus	261000 psi	1800 MPa	ASTM D638
Tensile Strength	201000 μ31	10001111 a	ASTM D638
Yield	10000 psi	69.0 MPa	ASTIVI DOSO
Break	9140 psi	63.0 MPa	
	9 140 psi	03.0 MFa	ASTM D638
Tensile Elongation Yield	9.0 %	9.0 %	ASTIVI DOSO
Break	90 %	90 %	A OTA 4 D700
Flexural Modulus	319000 psi	2200 MPa	ASTM D790
Flexural Strength	13100 psi	90.0 MPa	ASTM D790
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact			ASTM D256
-40°F (-40°C), 0.126 in (3.20 mm)	3.0 ft·lb/in	160 J/m	
73°F (23°C), 0.126 in (3.20 mm)	10 ft·lb/in	530 J/m	
Instrumented Dart Impact			ASTM D3763
-20°F (-29°C)	301 in·lb	34.0 J	
73°F (23°C)	398 in·lb	45.0 J	
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
66 psi (0.45 MPa), Unannealed	261 °F	127 °C	
66 psi (0.45 MPa), Annealed	289 °F	143 °C	
264 psi (1.8 MPa), Unannealed	241 °F	116 °C	
264 psi (1.8 MPa), Annealed	280 °F	138 °C	
Vicat Softening Temperature	291 °F	144 °C	ASTM D1525
Injection	Nominal Value (English)	Nominal Value (SI)	
Drying Temperature	257 to 275 °F	125 to 135 °C	
Processing (Melt) Temp	464 to 500 °F	240 to 260 °C	
Mold Temperature	203 to 248 °F	95 to 120 °C	

Notes



Form No. TDS-25812-en

¹ These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

² Typical properties: these are not to be construed as specifications.