

Isoplast® 302EZ TPU

Engineering Thermoplastic Polyurethane

Lubrizol Advanced Materials, Inc.

Message:

Type: Isoplast® 302EZ is an engineering thermoplastic polyurethane resin.

Features: NSF Standard 61 Certified

General Information			
Agency Ratings	NSF 61		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.20	g/cm³	ASTM D792
Molding Shrinkage - Flow	0.40 to 0.60	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			ASTM D785
M-Scale	92		
R-Scale	124		
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1900	MPa	ASTM D638
Tensile Strength			ASTM D638
Yield	83.0	MPa	
Break	69.0	MPa	
Tensile Elongation			ASTM D638
Yield	9.0	%	
Break	30	%	
Flexural Modulus	2300	MPa	ASTM D790
Flexural Strength	97.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-40°C, 3.20 mm	59	J/m	
23°C, 3.20 mm	110	J/m	
Instrumented Dart Impact (23°C, Total Energy)	68.0	J	ASTM D3763
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	132	°C	
0.45 MPa, Annealed	143	°C	
1.8 MPa, Unannealed	116	°C	
1.8 MPa, Annealed	138	°C	
Vicat Softening Temperature	147	°C	ASTM D1525
CLTE - Flow	5.8E-5	cm/cm/°C	ASTM D696

Optical	Nominal Value	Unit	Test Method
Transmittance	88.0	%	ASTM D1003
Yellowness Index	40	YI	ASTM D1925

Injection	Nominal Value	Unit
Drying Temperature	127 to 138	°C
Processing (Melt) Temp	238 to 260	°C
Mold Temperature	93.0 to 121	°C

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