

Isoplast® 302EZ TP

Lubrizol Advanced Materials, Inc. - Engineering Thermoplastic Polyurethane

Wednesday, November 6, 2019

ASTM D256

ASTM D3763

General Information Product Description Type: Isoplast® 302EZ is an engineering thermoplastic polyurethane resin. Features: NSF Standard 61 Certified General Material Status · Commercial: Active · Africa & Middle East • Europe Availability · North America · Asia Pacific · Latin America Agency Ratings NSF STD-61 Pellets **Forms** ASTM & ISO Properties 1 Nominal Value Unit **Physical Test Method** Density / Specific Gravity ASTM D792 1.20 4.0E-3 to 6.0E-3 in/in ASTM D955 Molding Shrinkage - Flow Mechanical **Nominal Value Unit Test Method** Tensile Modulus 276000 ASTM D638 Tensile Strength (Yield) 12000 psi ASTM D638 Tensile Strength (Break) 10000 psi ASTM D638 Tensile Elongation (Yield) 9.0 % ASTM D638 30 % Tensile Elongation (Break) ASTM D638 Flexural Modulus 334000 psi ASTM D790 Flexural Strength 14100 psi ASTM D790 **Impact** Nominal Value Unit **Test Method**

Notched Izod Impact	
-40°F, 0.126 in	1.1 ft·lb/in
73°F, 0.126 in	2.0 ft·lb/in

Hardness	Nominal Value Unit	Test Method
Rockwell Hardness		ASTM D785

M-Scale 92

124		
Nominal Value	Unit	Test Method
270	°F	ASTM D648
289	°F	ASTM D648
		ASTM D648
241	°F	
280	°F	ASTM D648
297	°F	ASTM D1525
3.2E-5	in/in/°F	ASTM D696
Nominal Value	Unit	Test Method
88.0	%	ASTM D1003
40	YI	ASTM D1925
	270 289 241 280 297 3.2E-5 Nominal Value 88.0	Nominal Value Unit



Instrumented Dart Impact (73°F, Total Energy)

602 in·lb

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Processing Information		
Injection	Nominal Value Unit	
Drying Temperature	261 to 280 °F	
Processing (Melt) Temp	460 to 500 °F	
Mold Temperature	199 to 250 °F	

Notes

¹ Typical properties: these are not to be construed as specifications.