

Isoplast® 301 ETPU

Engineering Thermoplastic Polyurethane

Lubrizol Advanced Materials, Inc.

Message:

Type: Isoplast® 301 is an engineering thermoplastic polyurethane resin.

General Information			
UL YellowCard		E106426-100187498	
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
Water Absorption (23°C, 24 hr)	0.19	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			ASTM D785
M-Scale	74		
R-Scale	123		
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2100	MPa	ASTM D638
Tensile Strength			ASTM D638
Yield	69.0	MPa	
Break	63.0	MPa	
Tensile Elongation			ASTM D638
Yield	7.0	%	
Break	140	%	
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	43	J/m	
23°C, 3.20 mm	130	J/m	
23°C, 6.40 mm	91	J/m	
Instrumented Dart Impact			ASTM D3763
-29°C	90.0	J	
23°C	90.0	J	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	88.0	°C	
0.45 MPa, Annealed	104	°C	
1.8 MPa, Unannealed	77.0	°C	

1.8 MPa, Annealed	99.0	°C	
Vicat Softening Temperature	109	°C	ASTM D1525
CLTE - Flow	6.1E-5	cm/cm/°C	ASTM D696
Optical	Nominal Value	Unit	Test Method
Transmittance	90.0	%	ASTM D1003
Yellowness Index	6.0	YI	ASTM D1925
Injection	Nominal Value	Unit	
Drying Temperature	95.0 to 110	°C	
Processing (Melt) Temp	230 to 250	°C	
Mold Temperature	65.0 to 95.0	°C	

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Recommended distributors for this material

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