

Jamplast JPTPUET

Thermoplastic Polyurethane Elastomer (Polyether)

Jamplast, Inc.

Message:

JPTPUET thermoplastic polyurethane elastomer is a polyester polycaprolactone based polyurethane elastomer which contains UV stabilizers and combines excellent resistance to fuels and oils with good hydrolytic stability compared to other polyester based TPUs. Its typical applications include seals, gaskets, belting, animal ID tags and other fabricated products.

General Information			
Additive	UV Stabilizer		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.18	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (224°C/1.2 kg)	35	g/10 min	ASTM D1238
Molding Shrinkage			ASTM D955
Flow : 1.60 mm	0.50 to 0.60	%	
Across Flow : 1.60 mm	0.50 to 0.60	%	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	86		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Taber Abrasion Resistance (1000 Cycles, 1000 g, H-22 Wheel)	50.0	mg	ASTM D1044
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
50% Strain	5.86	MPa	
100% Strain	7.24	MPa	
300% Strain	15.2	MPa	
Tensile Strength (Break)	40.3	MPa	ASTM D412
Tensile Elongation (Break)	530	%	ASTM D412
Tear Strength ¹	91.1	kN/m	ASTM D624
Compression Set (25°C, 22 hr)	25	%	ASTM D395
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	-37.2	°C	DSC
Vicat Softening Temperature	92.2	°C	ASTM D1525
CLTE - Flow	1.5E-4	cm/cm/°C	ASTM D696
Injection	Nominal Value	Unit	
Drying Temperature	82.2 to 93.3	°C	
Drying Time	2.0 to 4.0	hr	
Suggested Max Moisture	0.020	%	
Processing (Melt) Temp	199 to 210	°C	

Mold Temperature	15.6 to 60.0	°C
Injection Pressure	41.4 to 103	MPa
Back Pressure	0.00 to 0.689	MPa
Screw Speed	50 to 75	rpm
Clamp Tonnage	4.1 to 6.9	kN/cm ²
Screw L/D Ratio	18.0:1.0	
Screw Compression Ratio	2.0:1.0 to 3.5:1.0	

NOTE

1. Die C

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