

ColorFast® TPEU9500-70A
Americhem - Thermoplastic Polyurethane Elastomer (Polyether)
General Information
Product Description

TPEU9500-70A is an injection molding grade of aromatic polyether-based thermoplastic polyurethane with Shore-A hardness of 70. It has good chemical and wear resistance and good low temperature flexibility.

General

Material Status	• Commercial: Active
Availability	• Africa & Middle East • Europe • North America • Asia Pacific • Latin America
Features	• Excellent Colorability
Uses	• Consumer Applications • Industrial Applications • Household Goods • Industrial Parts
Forms	• Pellets
Processing Method	• Injection Molding

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.07		ASTM D792
Molding Shrinkage - Flow	8.0E-3	in/in	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Flexural Modulus	2100	psi	ASTM D790
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	3700	psi	ASTM D412
Tensile Elongation (Break)	750	%	ASTM D412
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	70		ASTM D2240

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	200 to 220	°F
Drying Time	2.0	hr
Rear Temperature	350 to 380	°F
Middle Temperature	360 to 390	°F
Front Temperature	360 to 400	°F
Nozzle Temperature	365 to 400	°F
Processing (Melt) Temp	380 to 410	°F
Mold Temperature	60 to 110	°F
Back Pressure	800	psi
Screw Speed	40 to 80	rpm

Notes

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

