

ARK 2150-50A

Thermoplastic Polyurethane Elastomer

Arkadia Plastics, Inc.

Message:

thermoplastic polyurethane alloys, is a class of soft TPU materials that have been formulated by blending TPUs with soft rubbers and other proprietary additives to improve compatibility and exhibit outstanding properties

General Information			
Additive	UV Stabilizer		
Features	Excellent Elastic Recovery		
	Good Abrasion Resistance		
	Good Chemical Resistance		
	Good Flexibility		
	Good Processability		
	Good UV Resistance		
	High Clarity		
	High Elasticity		
	Hydrolytically Stable		
	Oil Resistant		
Uses	Soft		
	Business Equipment		
	Computer Components		
	Film		
	Medical/Healthcare Applications		
	Overmolding		
	Power/Other Tools		
	Sheet		
	Sporting Goods		
	Tubing		
Forms	Pellets		
Processing Method	Extrusion		
	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.10	g/cm ³	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	50		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method

Tensile Stress			ASTM D412
100% Strain	1.03	MPa	
300% Strain	2.62	MPa	
Tensile Strength (Yield)	17.6	MPa	ASTM D412
Tensile Elongation (Break)	600	%	ASTM D412
Tear Strength	32.4	kN/m	ASTM D624
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	-65.0	°C	ASTM E1356
Injection	Nominal Value	Unit	
Drying Temperature	71.1 to 76.7	°C	
Processing (Melt) Temp	204 to 227	°C	
Extrusion	Nominal Value	Unit	
Drying Temperature	71.1 to 76.7	°C	
Melt Temperature	191 to 227	°C	

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