

# Argothane® ST-6050

Thermoplastic Polyurethane Elastomer

Argotec LLC

Message:

- Applications:
- Glass lamination optical interlayer film
- Characteristics:
- Eliminates need for glass surface primer
  - Clear, non-yellowing
  - Contains additive package for UV resistance

General Information			
Additive	UV Stabilizer		
Features	Good UV Resistance		
	High Clarity		
Uses	Film		
	Laminates		
	Optical Applications		
Processing Method	Die Molding		
	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.08	g/cm <sup>3</sup>	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	70		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Break	44.8	MPa	
100% Strain	3.10	MPa	
200% Strain	5.24	MPa	
300% Strain	12.2	MPa	
Tensile Elongation (Break)	400	%	ASTM D638
Elastomers	Nominal Value	Unit	Test Method
Tear Strength	52.5	kN/m	ASTM D624
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature <sup>1</sup>	-57.0	°C	DSC
CLTE - Flow	2.0E-4	cm/cm/°C	ASTM D696
TMA			
Peak	106	°C	
Range	83 to 130	°C	

Optical	Nominal Value	Unit	Test Method
Refractive Index	1.400		ASTM D542
Transmittance	85.0 to 95.0	%	ASTM D1003
Haze	< 0.25	%	ASTM D1003
Yellowness Index	< 1.0	YI	ASTM D1925

NOTE			
1.	midpoint		

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