

POLYCASA® TPU

Thermoplastic Polyurethane Elastomer

Polycasa

Message:

Polycasa TPU (Thermoplastic Polyurethane) is a brand name for TPU extruded sheets produced by Polycasa. The sheet can be delivered in flat sheets, palletised, or alternatively in rolls, as per customers requirements. This product offers superior abrasion resistance, tear resistance and other advanced mechanical properties.

CHARACTERISTICS

Extreme resistance to wear and tear.

Reduction of noise.

Repair/replacement indicator layer: (After wearing out, the black abrasion layer reveals a red indicator layer, signalling it should be repaired or replaced. This is key to preventative maintenance and allows for better production planning by avoiding unforeseen downtime, resulting in increased productivity.)

APPLICATIONS

Conveyor belt armouring.

Wear liners for: chutes, truck liners, cyclones, magnetic separators, cones and rotary mills.

Polycasa TPU can be installed either by mechanical fastening or by using polyurethane glue on metal, wooden or concrete surfaces. Once bonded to a metal surface, maintenance of TPU is very simple. The damaged surface is ground out, cleaned and the new TPU patch can be bonded into the damaged area. Repair work takes less than an hour to complete and can be carried out in the absence of a clean environment. Therefore, repairs can be done underground, for example in the mine. This means machinery does not have to be brought to the surface, reducing maintenance and repair time.

Polycasa TPU is 100% recyclable, therefore all side cuts can be reused.

General Information			
Features	Good Tear Strength		
	Good Wear Resistance		
	High Impact Resistance		
	Noise Damping		
	Recyclable Material		
	Sound Damping		
Uses	Abrasion Resistant Liners		
	Conveyors		
	Liners		
	Protective Coverings		
Forms	Sheet		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	1.20	g/cm ³	ISO 1183
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore A)	87		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Ultimate)	50.0	MPa	DIN 53504
Tensile Strain (Break)	600	%	DIN 53504
Abrasion Resistance	15.0	mm ³	ISO 4649

Tensile Storage Modulus			ISO 6721
-20°C	186	MPa	
20°C	51.0	MPa	
60°C	37.0	MPa	
Impact Resilience	42	%	ISO 4662
Elastomers	Nominal Value	Unit	Test Method
Tear Strength	70	kN/m	ISO 34-1
NOTE			
1.	200 mm/min		

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