

TROGAMID® TCR Film 400 µm

Polyamide
Evonik Industries AG

Message:

Decorative effects by insert molding
Resistant to chemicals
High heat deflection temperature
Clear and transparent
TROGAMID® TCR films are tough and stand up to sunlight, heat, shock, cosmetics, and chemicals.

General Information			
Features	Durable		
	Good Abrasion Resistance		
	Good Chemical Resistance		
	Good Processability		
	Good Toughness		
	Good UV Resistance		
	Good Weather Resistance		
	Shock Resistant		
	Sunlight Resistant		
Uses	Appliances		
	Automotive Applications		
	Medical Devices		
Appearance	Clear/Transparent		
Forms	Film		
Processing Method	Laminating		
	Thermoforming		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.02	g/cm ³	ISO 1183
Water Absorption (Saturation, 23°C)	3.5	%	ISO 62
Films	Nominal Value	Unit	Test Method
Tensile Stress			ISO 527-3/100
MD : Yield	50.0	MPa	
TD : Yield	45.0	MPa	
MD	80.0	MPa	
TD	55.0	MPa	
Tensile Elongation			ISO 527-3/100
MD : Yield	12	%	

TD : Yield	11	%	
MD : Break	> 50	%	
TD : Break	> 100	%	
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	140	°C	
Vicat Softening Temperature	130	°C	ISO 306/B
CLTE - Flow (23 to 80°C)	9.0E-5	cm/cm/°C	ISO 11359-2
Optical	Nominal Value	Unit	Test Method
Gloss			
20°	85		
60°	91		
85°	98		
Refractive Index	1.516		ISO 489
Transmittance ¹	91.8	%	DIN 5036
Haze	2.5	%	ASTM D1003
Yellowness Index	< 1.0	YI	ASTM D1925
Abbe Number	52.0		
NOTE			

1. Wavelength: 400 - 960 nm

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