



Hytrel® HTR3048 BK459 (PRELIMINARY) THERMOPLASTIC POLYESTER ELASTOMER

Hytrel® HTR3048 BK459 is a Low Modulus High Performance Polyester Elastomer Developed for Air Bag Door Applications

Product information			
Resin Identification	TPC-ET		ISO 1043
Part Marking Code	>TPC-ET<		ISO 11469
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Rheological properties			
Moulding shrinkage, parallel	0.7		ISO 294-4, 2577
Moulding shrinkage, normal	0.5	%	ISO 294-4, 2577
Typical mechanical properties			
Tensile modulus	21	MPa	ISO 527-1/-2
Stress at 10% strain		MPa	ISO 527-1/-2
Tensile stress at break	20	MPa	ISO 527-1/-2
Tensile strain at break	>300		ISO 527-1/-2
Charpy notched impact strength, -30°C		kJ/m²	ISO 179/1eA
Shore D hardness, 15s	25		ISO 48-4 / ISO 868
Shore D hardness, max	29	L-N1/	ISO 868
Tear strength, parallel	73	kN/m	ISO 34-1
Thermal properties			
Melting temperature, 10°C/min	176	°C	ISO 11357-1/-3
Vicat softening temperature, 50°C/h 10N		°C	ISO 306
Flammability			
	5		100 0705 (514)(00 000)
FMVSS Class	В		ISO 3795 (FMVSS 302)
Burning rate, Thickness 1 mm	<80	mm/min	ISO 3795 (FMVSS 302)
Physical/Other properties			
Density	1080	kg/m³	ISO 1183
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Injection			
Drying Recommended	yes		
Drying Temperature		°C	
Drying Time, Dehumidified Dryer	2 - 4		
Processing Moisture Content Melt Temperature Optimum	≤0.08 205		
Min. melt temperature	195		
Max. melt temperature	210		
Mold Temperature Optimum		°C	
Min. mould temperature		°C	
Max. mould temperature	40	°C	

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Revised: 2025-04-22 Source: Celanese Materials Database





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Characteristics

Processing Injection Moulding, Film Extrusion, Sheet Extrusion

Delivery form Pellets

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The above data are preliminary and are subject to change as additional data are developed on subsequent lots.

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