

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

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	2 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	N kJ/m ²	ISO 179/1eA
Shore D hardness, 15s	25	ISO 48-4 / ISO 868
Shore D hardness, max	29	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	72 °C	ISO 306

Flammability

FMVSS Class	B	ISO 3795 (FMVSS 302)
Burning rate, Thickness 1 mm	<80 mm/min	ISO 3795 (FMVSS 302)

Physical/Other properties

Density	1080 kg/m ³	ISO 1183
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Injection

Drying Recommended	yes
Drying Temperature	80 °C
Drying Time, Dehumidified Dryer	2 - 4 h
Processing Moisture Content	≤0.08 %
Melt Temperature Optimum	205 °C
Min. melt temperature	195 °C
Max. melt temperature	210 °C
Mold Temperature Optimum	30 °C
Min. mould temperature	30 °C
Max. mould temperature	40 °C

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Characteristics

Processing	Injection Moulding, Film Extrusion, Sheet Extrusion
Delivery form	Pellets