

INSPIRE™ T710-25 ES

Performance Polymers

Overview

T710-25 ES Polypropylene Resin DA™ is a high impact TPO with enhanced flow, scratch and mar, and surface aesthetics for excellent molded-in-color appearance for automotive interior applications.

Main Characteristics:

- Tiger stripe free
- Slip agent
- Approved on DaimlerChrysler MS-DB500

Automotive Specifications

- CHRYSLER MS-DB-500

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.897 g/cm ³	0.897 g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	27 g/10 min	27 g/10 min	ASTM D1238
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Stress (Yield)	2840 psi	19.6 MPa	ISO 527-2/50
Flexural Modulus ¹	140000 psi	966 MPa	ISO 178
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-40°F (-40°C)	2.6 ft-lb/in ²	5.4 kJ/m ²	
73°F (23°C)	23 ft-lb/in ²	49 kJ/m ²	
Instrumented Dart Impact ²			ASTM D3763
-20°F (-29°C), Ductile	407 in-lb	46.0 J	
73°F (23°C), Ductile	266 in-lb	30.0 J	
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Heat Deflection Temperature			
66 psi (0.45 MPa), Unannealed	171 °F	77.0 °C	ISO 75-2/Bf
264 psi (1.8 MPa), Unannealed	118 °F	48.0 °C	ISO 75-2/Af

Notes

These are typical properties only and are not to be construed as specifications. Users should confirm results by their own tests.

¹ 0.079 in/min (2.0 mm/min)

² 21.7 ft/sec (6.60 m/sec)



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