INSPIRE™ T710-25 ES

Trinseo - Performance Polymers

Tuesday, November 5, 2019

General Information

Product Description

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

General		
Material Status	• Commercial: Active	
Availability	• North America	
Additive	• Slip	
Features	• Good Scratch Resistance • High Impact Resistance	• Pleasing Surface Appearance • Slip
Uses	• Automotive Applications	• Automotive Interior Parts
Automotive Specifications	• CHRYSLER MS-DB-500	
Forms	• Pellets	
Processing Method	• Injection Molding	

ASTM & ISO Properties [1]

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.899		ASTM D792
Melt Mass-Flow Rate (230°C/2.16 kg)	27	g/10 min	ASTM D1238
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress (Yield)	2840	psi	ISO 527-2/50
Flexural Modulus [2]	140000	psi	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength			ISO 179/1eA
-40°F	2.6	ft·lb/in²	
73°F	23	ft·lb/in²	
Instrumented Dart Impact [3]			ASTM D3763
-20°F, Ductile	407	in·lb	
73°F, Ductile	266	in·lb	
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature (66 psi, Unannealed)	171	°F	ISO 75-2/Bf
Heat Deflection Temperature (264 psi, Unannealed)	118	°F	ISO 75-2/Af

Notes

[1] Typical properties: these are not to be construed as specifications.

[2] 0.079 in/min

[3] 21.7 ft/sec