Developmental DTF1602.00 ESU

Developmental Performance Polymers

Trinseo

Message:

DTF1602.00 ESU Developmental PP Compound exhibits good processing, good impact and high stiffness performance. In addition, this grade offers low gloss, good UV stability and scratch/abrasion resistance. In combination with a density of 1.01, which is lower than the industry standard, this grade allows reducing the weight of parts.
This unique set of performance characteristics makes it a suitable product for many complex, unpainted and uncovered applications in the car interior, whether the part is subject to high temperatures and direct sunlight, or is located in highly visible and scratch sensitive areas.
Applications
Automotive interior parts such as door panels and mid consoles
Injection moulding and LPM
Suitable for self colouring with master batch
This grade is also available in a nonaesthetical version.

General Information			
Filler / Reinforcement	Talc filler, 15% filler by weight		
Features	Low density Rigidity, high Gloss, low Impact resistance, good Good UV resistance Scratch resistance Good appearance		
Uses	Application in Automobile Field Car interior parts		
Forms	Particle		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.01	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	22	g/10 min	ISO 1133
Molding Shrinkage	0.90 - 1.3	%	ISO 2577
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	2200	MPa	ISO 527-2/1
Tensile Stress (Yield)	20.0	MPa	ISO 527-2/50
Tensile Strain (Break)	30	%	ISO 527-2/50
Flexural Modulus	2200	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength (23°C)	9.0	kJ/m²	ISO 179/1eA
Notched Izod Impact			ISO 180/1A
-30°C	4.0	kJ/m²	ISO 180/1A

23°C	9.0	kJ/m²	ISO 180/1A
Multi-Axial Instrumented Impact Energy [1] (0°C, 2.00 mm)	12.0	J	ISO 6603-2
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature			
0.45 MPa, not annealed	105	°C	ISO 75-2/B
1.8 MPa, not annealed	64.0	°C	ISO 75-2/A
Vicat Softening Temperature	140	°C	ISO 306/A120
CLTE - Flow	8.5E-5	cm/cm/°C	ISO 11359-2
Flammability	**Nominal Value**	**Unit**	**Test Method**
Burning Rate [2] (1.00 mm)	45	mm/min	ISO 3795
Additional Information			
Testing performed on injection moulded samples in natural.			
Injection	**Nominal Value**	**Unit**	
Processing (Melt) Temp	200 - 260	°C	
Mold Temperature	20.0 - 60.0	°C	
NOTE			
1.	Energy to Break		
2.	This rating not intended to reflect hazards presented by this or any other material under actual fire conditions.		

Recommended distributors for this material

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