Finalloy® PPC7810B + MB-50/HE A (70/30)

TotalEnergies - Compounded Polypropylene

Tuesday, November 1, 2022

General Information

Product Description

The PPC7810B is a very high impact RTPO. MB-50/HE A is a 50% mineral filled masterbatch. The combination of these two components in an indicative ratio of 70/30 results in a 15% mineral filled, high impact PP compound. Compared with other masterbatch systems, these components will give a higher modulus and lower shrinkage.

The resulting material is particularly suitable for the injection moulding of automotive exterior parts like bumpers. These components are also ideal when targeting lower weight parts.

General			
Material Status	• Commercial: Active		
Availability	• Europe	• North America	
Filler / Reinforcement	• Mineral, 15% Filler by Weight		
Features	• High Impact Resistance		
Uses	• Automotive Applications	• Automotive Bumper	• Automotive Exterior Parts
Forms	• Pellets		
Processing Method	• Injection Molding		

ASTM & ISO Properties [1]

Physical	Nominal Value	Unit	Test Method
Density	1.00	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	10	g/10 min	ISO 1133
Molding Shrinkage (0.118 in)	0.65 to 0.95	%	Internal Method
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	218000	psi	ISO 527-1
Tensile Stress (Yield)	2610	psi	ISO 527-2
Tensile Strain (Yield)	5.0	%	ISO 527-2
Tensile Elongation (Break)	> 50	%	ISO 527
Flexural Modulus	232000	psi	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength			ISO 179/1eA
-4°F	3.8	ft·lb/in²	
73°F	No Break		
Hardness	**Nominal Value**	**Unit**	**Test Method**
Shore Hardness (Shore D)	61		ISO 868
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (66 psi, Unannealed)	194	°F	ISO 75-2/B
Vicat Softening Temperature	248	°F	ISO 306/A50
Melting Temperature	320 to 329	°F	Internal Method
CLTE - Flow	3.6E-5	in/in/°F	ASTM D696

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Notes

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