

Hifax Premium TKC 176P

Polypropylene Copolymer
LyondellBasell Industries

Message:

"Hifax" Premium TKC 176P is a 18% mineral filled, impact modified polypropylene copolymer for injection molding. It combines excellent stiffness/impact balance, excellent scratch resistance, high hardness, and good flowability properties with good dimensional stability and UV-stability. The grade has been specifically designed for molding of automotive unpainted exterior trim parts. The grade is available in color-matched, pellet form.

General Information			
Filler / Reinforcement	Mineral,18% Filler by Weight		
Additive	Impact Modifier		
	UV Stabilizer		
Features	Copolymer		
	Good Dimensional Stability		
	Good Flow		
	Good Impact Resistance		
	Good UV Resistance		
	High Hardness		
	High Stiffness		
	Impact Modified		
	Scratch Resistant		
Uses	Automotive Applications		
	Automotive Exterior Trim		
	Automotive Interior Parts		
Appearance	Colors Available		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.02	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	15	g/10 min	ISO 1133
Molding Shrinkage	0.80 to 1.0	%	ISO 294-4
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D, 15 sec)	66		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus - Secant	2150	MPa	ISO 527-2/1
Tensile Stress (Yield)	23.0	MPa	ISO 527-2/50

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	4.0	kJ/m ²	
23°C	25	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	45	kJ/m ²	
23°C	No Break		
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	100	°C	ISO 75-2/B
1.8 MPa, Unannealed	58.0	°C	ISO 75-2/A

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