

TATREN® TPO 12 76

Compounded Polypropylene

Slovnaft Petrochemicals, s.r.o.

Message:

TATREN TPO 12 76 is controlled rheology extra high impact resistance thermoplastic polyolefin with exceptional impact properties even at low temperatures. It is grade of medium fluidity and contains nucleating agent. TATREN TPO 12 76 is characterised by exceptionally high impact resistance even at minus temperatures and very good impact/stiffness balance.

Applications

TATREN TPO 12 76 is intended especially for compounding and subsequent injection moulding of products where excellent impact resistance at minus temperatures is required. This grade is intended to be used in automotive industry. In regard of extra high impact properties of the grade it is very often not necessary to add any rubber modifier for the purpose to increase impact behaviour for heavy applications. When used in blends it also allows usage of higher portion of regranulates while there is not deterioration of impact properties, which makes this grade to be economically very attractive raw material.

TATREN TPO 12 76 is suitable for food contact. The product complies with Food Contact Regulations.

General Information			
Additive	Nucleating Agent		
Features	Controlled Rheology		
	Food Contact Acceptable		
	High Impact Resistance		
	High Stiffness		
	Low Temperature Impact Resistance		
	Medium Flow		
	Nucleated		
	Recyclable Material		
Uses	Automotive Applications		
	Compounding		
Forms	Pellets		
Processing Method	Compounding		
	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	12	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (Injection Molded)	1000	MPa	ISO 527-2
Tensile Stress (Yield, Injection Molded)	19.0	MPa	ISO 527-2
Tensile Strain (Yield, Injection Molded)	12	%	ISO 527-2
Flexural Modulus (Injection Molded)	900	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength			ISO 180/A

-30°C, Injection Molded	> 10	kJ/m ²	
-20°C, Injection Molded	32	kJ/m ²	
23°C, Injection Molded	45	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	82.0	°C	ISO 75-2/B
Injection	Nominal Value	Unit	
Processing (Melt) Temp	190 to 250	°C	

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