

Exxtral™ Performance Polyolefin BNU013

Polypropylene, Compounded (TPO)

ExxonMobil Chemical

Message:

The invention relates to a special thermoplastic polyolefin resin with high impact strength and good scratch resistance, and is used in automobile interior parts (such as door panels).

General Information			
Features	Rigidity, high		
	Equilibrium rigidity/toughness		
	High scratch resistance		
	Impact resistance, good		
	Workability, good		
	Medium liquidity		
Uses	Application in Automobile Field		
	Car interior parts		
	Car interior equipment		
Appearance	Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	0.900	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	16	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (230°C/2.16 kg)	22.0	cm ³ /10min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus - Secant (23°C)	1010	MPa	ISO 527-2
Tensile Stress			ISO 527-2
Yield	17.0	MPa	ISO 527-2
Fracture	13.0	MPa	ISO 527-2
Tensile Strain (Yield)	4.0	%	ISO 527-2
Flexural Modulus	1030	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-20°C, complete fracture	9.0	kJ/m ²	ISO 179
0°C, complete fracture	13	kJ/m ²	ISO 179
23°C, complete fracture	21	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method

Heat Deflection Temperature			
0.45 MPa, not annealed	69.0	°C	ISO 75-2/B
1.8 MPa, not annealed	45.0	°C	ISO 75-2/A

Legal statement

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