

Unipren® Elastomers D3 PRTA011 60A IG06S1 UP345

Thermoplastic Polyolefin Elastomer

Petropol Industry and Trade of Polymers LTDA

Message:

Thermoplastic elastomer (TPO), medium density that combines good physical and chemical properties with flexibility and easy of injection molding. The facilities of use allows a wide range of shapes, colors and designs, besides showing the characteristic of being thermoplastic and fully recyclable. Unipren® D is a soft elastomer, made from non-toxic

General Information			
Features	Medium Density		
	Recyclable Material		
Processing Method	Injection Molding		
Resin ID (ISO 1043)	>TPO<		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.10	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	20	g/10 min	ASTM D1238
Molding Shrinkage - Flow	2.0 to 3.0	%	ASTM D955
Mooney Viscosity (ML 1+4, 121°C)	37	MU	ASTM D1646
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	73 to 77		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	1.90	MPa	ASTM D638
Flexural Modulus - 1% Secant	8.50	MPa	ASTM D790
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Break)	9.10	MPa	ASTM D412
Tensile Elongation ² (Break)	> 650	%	ASTM D412
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	41.0	°C	ASTM D1525
Injection	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	2.0 to 3.0	hr	
Rear Temperature	145	°C	
Middle Temperature	150	°C	
Front Temperature	155	°C	
Nozzle Temperature	190	°C	
Processing (Melt) Temp	160 to 205	°C	
Mold Temperature	25.0 to 50.0	°C	

NOTE

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Recommended distributors for this material

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