+135-3858-6433 (GuangDong) +188-1699-6168 (ShangHai) +852-6957-5415 (HongKong)



Desmoflex® 50055 NAT XRD1 (PRELIMINARY DATA)

Teknor Apex Company - Modified Thermoplastic Polyurethane

General Information

Product Description

Desmoflex 50055 NAT XRD1 is a high performance thermoplastics elastomer that is designed for a variety of consumer applications including sport application. Desmoflex 50055 NAT XRD1 is a opaque, medium hardness, low density and good recovery grade that is designed for injection molding.

General

Material Status	 Preliminary Data 		
Availability	Asia Pacific	• Europe	
Features	Good ColorabilityGood Flexibility	Good Tensile StrengthLow Density	Medium FlowMedium Hardness
Jses	 Consumer Applications 	 Soft Touch Applications 	 Sporting Goods
Appearance	 Colors Available 	Natural Color	
Forms	• Pellets		
Processing Method	Injection Molding		

ASTM & ISO Properties 1

Nominal Value	Unit	Test Method
1.05		ASTM D792
1.6	g/10 min	ASTM D1238
Nominal Value	Unit	Test Method
396	psi	ASTM D412
954	psi	ASTM D412
1020	psi	ASTM D412
420	%	ASTM D412
Nominal Value	Unit	Test Method
		ASTM D2240
59		
58		
	1.05 1.6 Nominal Value 396 954 1020 420 Nominal Value	1.6 g/10 min Nominal Value Unit 396 psi 954 psi 1020 psi 420 % Nominal Value Unit

Desmoflex® is a registered trademark of COVESTRO Group

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Processing Information				
Injection	Nominal Value Unit			
Drying Temperature	149 to 176 °F			
Drying Time	3.0 to 4.0 hr			
Rear Temperature	320 to 392 °F			
Middle Temperature	338 to 410 °F			
Front Temperature	356 to 410 °F			
Nozzle Temperature	356 to 410 °F			
Processing (Melt) Temp	356 to 410 °F			
Mold Temperature	68 to 122 °F			

Moisture can degrade the material. Drying is suggested. This can be accomplished by placing the material in a desiccant dryer for 3 to 4 hours, between 65°C to 80°C.

Notes

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

² Die C, 20 in/min

³ Aged for 12hrs at 90°C, follow by conditioning for 8hrs at room temperature.