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



Desmoflex® 50055 NAT XRD5 (PRELIMINARY DATA)

Teknor Apex Company - Modified Thermoplastic Polyurethane

General Information

Product Description

Desmoflex 50055 NAT XRD5 is a high performance thermoplastics elastomer that is designed for a variety of consumer applications including sport application. Desmoflex 50055 NAT XRD5 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 Strength Low 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	Prop	perties 1
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Physical	Nominal Value	Unit	Test Method
		Ollit	
Density / Specific Gravity	1.04		ASTM D792
Melt Mass-Flow Rate (MFR) ² (190°C/5.0 kg)	1.7	g/10 min	ASTM D1238
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress ^{3, 4} (100% Strain)	305	psi	ASTM D412
Tensile Stress ^{3, 4} (300% Strain)	551	psi	ASTM D412
Tensile Strength ^{3, 4} (Break)	1380	psi	ASTM D412
Tensile Elongation ^{3, 4} (Break)	850	%	ASTM D412
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness ⁴			ASTM D2240
Shore A, 1 sec, Injection Molded	59		
Shore A, 5 sec, Injection Molded	58		
Additional Information			

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 After drying for 3hrs at 60°C.

³ Die C, 20 in/min

⁴ Aged for 12hrs at 90°C, follow by conditioning for 8hrs at room temperature.