



Desmoflex® S9-20045D NAT (PRELIMINARY DATA)

Teknor Apex Company - Thermoplastic Polyurethane Elastomer

General Information

Product Description

Desmoflex S9-20045D is of Recycled Thermoplastic Polyurethane based and UBQ to achieve reduce the carbon footprint of TPE

General

Material Status	• Preliminary Data	
Availability	• Asia Pacific	• Europe
Features	• Filled • Good Tensile Strength	• Good Toughness • High Hardness
Uses	• Appliances	• Industrial Applications
Appearance	• Colors Available	• Natural Color
Forms	• Pellets	
Processing Method	• Injection Molding	

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.19		ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/10.0 kg)	35	g/10 min	ASTM D1238
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength ² (Break)	1600	psi	ASTM D412
Tensile Elongation ² (Break)	150	%	ASTM D412
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shore D, 1 sec, Injection Molded	48		
Shore D, 5 sec, Injection Molded	45		

Additional Information

Desmoflex® is a registered trademark of COVESTRO Group

Processing Information

Extrusion	Nominal Value	Unit
Drying Temperature	190 to 220	°F
Suggested Max Moisture	0.030	%
Cylinder Zone 1 Temp.	360 to 400	°F
Cylinder Zone 2 Temp.	365 to 410	°F
Cylinder Zone 3 Temp.	365 to 410	°F
Die Temperature	370 to 415	°F

Extrusion Notes

The material must be dried in a desiccant dehumidifying hopper dryer prior to processing. Hopper inlet air temperature should be 190-220°F, to achieve a recommended moisture content of less than 0.03%.

Notes

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

² Die C, 20 in/min