



Monprene® IN-22068

Teknor Apex Company - Thermoplastic Elastomer

General Information

Product Description

Monprene IN-22068 is a high performance thermoplastic elastomer designed for the industrial market. Monprene IN-22068 is a medium hardness, low density grade that is suitable for extrusion.

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Abrasion Resistant • Chemical Resistant • Good Adhesion • Good Colorability • Good Melt Strength • Good Moldability	• Good Processability • Good Processing Stability • Good Tear Strength • Good Toughness • Halogen Free • High Elongation	• Low Compression Set • Low Density • Low Flow • Low Specific Gravity • Medium Hardness • Without Fillers
Uses	• Gaskets • Handles • Hose • Industrial Applications	• Low Temperature Applications • Pipe Seals • Profiles • Rubber Replacement	• Seals • Tubing • Windows & Doors
RoHS Compliance	• RoHS Compliant		
Appearance	• Colors Available	• Natural Color	• Translucent
Forms	• Pellets		
Processing Method	• Extrusion		

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.900		ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	3.0	g/10 min	ASTM D1238
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress ²			ASTM D412
Across Flow : 100% Strain	330	psi	
Flow : 100% Strain	609	psi	
Tensile Stress ²			ASTM D412
Across Flow : 300% Strain	540	psi	
Flow : 300% Strain	860	psi	
Tensile Strength ²			ASTM D412
Across Flow : Break	1310	psi	
Flow : Break	897	psi	
Tensile Elongation ²			ASTM D412
Across Flow : Break	740	%	
Flow : Break	390	%	
Tear Strength ²			ASTM D624
Across Flow	247	lbf/in	
Flow	182	lbf/in	
Compression Set ³			ASTM D395B
73°F, 22 hr	25	%	
158°F, 22 hr	65	%	

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Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shore A, 1 sec, Injection Molded	68		
Shore A, 5 sec, Injection Molded	65		
Fill Analysis	Nominal Value	Unit	Test Method
Apparent Viscosity (392°F, 207 sec ⁻¹)	322	Pa·s	ASTM D3835

Processing Information		
Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	360 to 400	°F
Cylinder Zone 2 Temp.	380 to 420	°F
Cylinder Zone 3 Temp.	380 to 420	°F
Cylinder Zone 4 Temp.	380 to 420	°F
Cylinder Zone 5 Temp.	380 to 420	°F
Die Temperature	380 to 420	°F
Extrusion Notes		
Screw Speed: 30 to 100 rpm		

Notes

- ¹ Typical properties: these are not to be construed as specifications.
- ² Die C, 20 in/min
- ³ Type 1