Wednesday, May 13, 2026

HiFill® TPE 1091 55A BK

Techmer Polymer Modifiers - *Thermoplastic Elastomer*

Units SI

Action **Legend (Open)**

General Information

General	
Material Status	• Commercial: Active
Availability	• North America
Appearance	• Black
Processing Method	• Injection Molding

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.948	g/cm³	ASTM D792
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength (Break)	2.90	MPa	ASTM D638
Tensile Elongation (Break)	250	%	ASTM D638
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore A)	55		ASTM D2240
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating			UL 94
1.5 mm	HB		
3.0 mm	HB		

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	82	°C
Drying Time	3.0 to 4.0	hr
Rear Temperature	254 to 271	°C
Middle Temperature	260 to 277	°C
Front Temperature	266 to 282	°C
Nozzle Temperature	274 to 285	°C
Processing (Melt) Temp	260 to 285	°C
Mold Temperature	24 to 66	°C
Injection Rate	Slow-Moderate	
Back Pressure	0.172 to 0.517	MPa
Screw Speed	Slow	

Notes

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

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