

Telcar® TL-4200-55UV

Thermoplastic Elastomer

Teknor Apex Company

Message:

Telcar TL-4220-55UV is a UV resistant thermoplastic elastomer designed for the industrial market. Telcar TL-4220-55UV is a medium hardness, low density grade suitable for injection molding and extrusion.

General Information			
Features	Low Specific Gravity		
	Sunlight Resistant		
	Low density		
	smoothness		
	Light stabilization		
	Low liquidity		
	Lubrication		
	Fill		
	Medium hardness		
Uses	Washer		
	Industrial application		
	Weather-resistant sealing strip		
	General		
Forms	Particle		
Processing Method	Extrusion		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.908	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	1.0	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shaw A, 1 sec	58		ASTM D2240
Shaw A, 5 seconds	55		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
Transverse flow: 100% strain ¹	1.78	MPa	ASTM D412
Flow: 100% strain ²	4.12	MPa	ASTM D412
Transverse flow: 300% strain ³	2.84	MPa	ASTM D412
Tensile Strength ⁴			ASTM D412

Transverse flow: Fracture	7.02	MPa	ASTM D412
Flow: Fracture	4.47	MPa	ASTM D412
Tensile Elongation ⁵			ASTM D412
Transverse flow: Fracture	720	%	ASTM D412
Flow: Fracture	170	%	ASTM D412
Tear Strength ⁶			ASTM D624
Transverse flow	28.7	kN/m	ASTM D624
Flow	21.7	kN/m	ASTM D624
Compression Set ⁷			ASTM D395B
23°C, 22 hr	22	%	ASTM D395B
70°C, 22 hr	39	%	ASTM D395B

Injection	Nominal Value	Unit
Rear Temperature	171 - 193	°C
Middle Temperature	177 - 199	°C
Front Temperature	182 - 204	°C
Nozzle Temperature	188 - 210	°C
Processing (Melt) Temp	188 - 210	°C
Mold Temperature	25.0 - 65.6	°C
Injection Pressure	1.38 - 6.89	MPa
Injection Rate	Moderate-Fast	
Back Pressure	0.172 - 0.345	MPa
Screw Speed	50 - 100	rpm
Cushion	3.81 - 25.4	mm

Injection instructions

Drying is not necessary. However, if moisture is a problem, dry the pellets for 2 to 4 hours at 150°F (65°C).

Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	166 - 188	°C
Cylinder Zone 2 Temp.	171 - 193	°C
Cylinder Zone 3 Temp.	177 - 199	°C
Cylinder Zone 5 Temp.	182 - 204	°C
Die Temperature	190 - 210	°C

Extrusion instructions

Screw Speed: 30 to 100 rpm

NOTE

1. Mouth die C, 510mm/min
2. Mouth die C, 510mm/min
3. C mold, 510mm/min
4. C mold, 510mm/min
5. Mouth die C, 510mm/min
6. C mold, 510mm/min
7. Type 1

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