Maxxam™ 90 H-CSL Natural 70

Polypropylene Homopolymer

Key Characteristics

Product Description
PolyOne's Maxxam™ family of polypropylene- and polyethylene-based products covers a wide range of applications, markets and performance requirements. Standard grades are compounded with calcium carbonate, glass and talc to provide a desired balance of properties including stiffness, durability, impact resistance and heat resistance. Custom grades are available with features such as UV stabilizers, heat stabilizers, custom color, high impact, etc.

General			
Material Status	• Commercial: Active		
Regional Availability	• Europe		
Features	• Copper Contact Stabilized • Good Processability	• Good Stiffness • Good Strength	• Heat Stabilized • High Flow
Uses	• Appliances • Automotive Applications	• Consumer Applications • General Purpose	• Industrial Applications
RoHS Compliance	• RoHS Compliant		
Appearance	• Natural Color		
Forms	• Pellets		
Processing Method	• Injection Molding		

Technical Properties [1]

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density	0.900 g/cm³	0.900 g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
190°C/2.16 kg	30 g/10 min	30 g/10 min	
230°C/2.16 kg	80 g/10 min	80 g/10 min	
Molding Shrinkage			Internal Method
Across Flow	1.7 to 1.9 %	1.7 to 1.9 %	
Flow	1.7 to 1.9 %	1.7 to 1.9 %	
Mechanical	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Tensile Modulus	218000 psi	1500 MPa	ISO 527-2/1
Tensile Stress	4350 psi	30.0 MPa	ISO 527-2/50
Tensile Strain (Yield)	4.0 %	4.0 %	ISO 527-2/50
Impact	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Charpy Unnotched Impact Strength	14 ft·lb/in²	30 kJ/m²	ISO 179/1eU
Thermal	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Heat Deflection Temperature			ISO 75-2/B
66 psi (0.45 MPa), Unannealed	185 °F	85.0 °C	
Melting Temperature	320 to 329 °F	160 to 165 °C	
Flammability	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Flame Rating (0.06 in (1.6 mm))	HB	HB	UL 94

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Drying Temperature	176 °F	80 °C
Drying Time	1.0 hr	1.0 hr
Rear Temperature	347 to 365 °F	175 to 185 °C
Middle Temperature	356 to 374 °F	180 to 190 °C

Injection	Typical Value (English)	Typical Value (SI)
Front Temperature	365 to 383 °F	185 to 195 °C
Nozzle Temperature	374 to 392 °F	190 to 200 °C
Mold Temperature	131 to 176 °F	55 to 80 °C

Notes

[1] Typical values are not to be construed as specifications.

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