Maxxam™ 20 T/20 UV Grey 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		
Filler / Reinforcement	• Talc, 20% Filler by Weight		
Features	• Good Processability • Good Stiffness	• Good Strength • High Flow	• UV Resistant • UV Stabilized
Uses	• Appliances • Automotive Applications	• Construction Applications • Consumer Applications	• General Purpose • Industrial Applications
Appearance	• Grey		
Forms	• Pellets		
Processing Method	• Injection Molding		

Technical Properties [1]

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density	1.05 g/cm³	1.05 g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	20 g/10 min	20 g/10 min	ISO 1133
Mechanical	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Tensile Modulus	341000 psi	2350 MPa	ISO 527-2/1
Tensile Stress (Injection Molded)	3990 psi	27.5 MPa	ISO 527-2/50
Tensile Strain (Yield, 73°F (23°C))	4.0 %	4.0 %	ISO 527-2/50
Tensile Strain (Break)	10 %	10 %	ISO 527-2/50
Impact	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Charpy Unnotched Impact Strength			ISO 179/1eU
Injection Molded	19 ft·lb/in²	40 kJ/m²	
Notched Izod Impact Strength			ISO 180/A
73°F (23°C), Injection Molded	1.4 ft·lb/in²	3.0 kJ/m²	
Thermal	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Heat Deflection Temperature			ISO 75-2/A
264 psi (1.8 MPa), Unannealed	158 °F	70.0 °C	
Vicat Softening Temperature	302 °F	150 °C	ISO 306/A120
Ball Pressure Test (257°F (125°C))	Pass	Pass	IEC 60695-10-2
Melting Temperature	320 to 329 °F	160 to 165 °C	
Electrical	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Comparative Tracking Index	600 V	600 V	IEC 60112
Flammability	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Flame Rating	HB	HB	UL 94
Glow Wire Flammability Index			IEC 60695-2-12
0.03 to 0.08 in (0.8 to 2.0 mm)	1200 °F	650 °C	

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
Front Temperature	365 to 383 °F	185 to 195 °C
Nozzle Temperature	374 to 392 °F	190 to 200 °C
Mold Temperature	77 to 131 °F	25 to 55 °C

Notes

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

Beyond Polymers.

Better Business Solutions. [SM]