

ExxonMobil™ PP7555KNE2

Polypropylene Impact Copolymer

ExxonMobil Chemical

Message:

A copolymer resin with high melt flow rate and medium impact strength is used for thin-walled injection molding requiring short cycle time and low odor.

General Information			
UL YellowCard	E225564-100723139		
Features	Nucleated		
	Rigidity, high		
	Impact resistance, high		
	High liquidity		
	The smell is low to none		
	Good demoulding performance		
Uses	Rigid Food Packaging		
	Home appliance components		
	Container		
	Toys		
	Consumer goods application field		
Appearance	Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	50	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness	89		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1370	MPa	ISO 527-2/1
Tensile Strength			
Yield ¹	25.4	MPa	ASTM D638
Yield	24.7	MPa	ISO 527-2/50
Tensile Elongation			
Yield ²	4.6	%	ASTM D638
Yield	3.7	%	ISO 527-2/50
Flexural Modulus			
1% secant ³	1340	MPa	ASTM D790A
1% secant ⁴	1520	MPa	ASTM D790B

-- 5	1270	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	4.2	kJ/m ²	ISO 179/1eA
-20°C	4.6	kJ/m ²	ISO 179/1eA
0°C	5.4	kJ/m ²	ISO 179/1eA
23°C	8.5	kJ/m ²	ISO 179/1eA
Notched Izod Impact			
23°C	94	J/m	ASTM D256A
-40°C	3.9	kJ/m ²	ISO 180/1A
-18°C	4.2	kJ/m ²	ISO 180/1A
23°C	7.4	kJ/m ²	ISO 180/1A
Dart Drop Impact ⁶ (-29°C, 3.18 mm)	16.6	J	ASTM D5420
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, not annealed	105	°C	ASTM D648
0.45 MPa, not annealed	93.0	°C	ISO 75-2/Bf
0.45 MPa, annealed	119	°C	ASTM D648
1.8 MPa, not annealed	50.7	°C	ISO 75-2/A
Legal statement			
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NOTE			
1.	51 mm/min		
2.	51 mm/min		
3.	1.3 mm/min		
4.	13 mm/min		
5.	2.0 mm/min		
6.	Geometry GC		

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