

DuClear® QW 80 AV

Polypropylene Random Copolymer

Ducor Petrochemicals BV

Message:

Description

DuClear QW 80 AV is a controlled rheology modified polypropylene random copolymer, suitable for injection moulding applications. The product is clarified and contains an anti-electrostatic agent. DuClear QW 80 AV features a very good transparency and aesthetic appearance, a good balance of stiffness and impact strength, good organoleptics, low blooming, very high melt flow, and energy & cycle time savings.

Applications

DuClear QW 80 AV is suitable for: high-speed injection moulding, thin-walled packaging, containers, and houseware.

General Information	
Additive	Antistatic Clarifier
Features	Antistatic Controlled Rheology Food Contact Acceptable Good Organoleptic Properties High Clarity High Flow Low Blooming Pleasing Surface Appearance Random Copolymer
Uses	Containers Household Goods Thin-walled Packaging
Agency Ratings	EC 1907/2006 (REACH) EC 1935/2004 EN 71-3 EU 10/2011 EU 2000/53/EC EU 2002/96/EC (WEEE) EU 2005/84/EC EU 94/62/EC FDA 21 CFR 177.1520(a) 3 (i) FDA 21 CFR 177.1520(c) 3.1a
RoHS Compliance	RoHS Compliant
Appearance	Clear/Transparent

Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.910	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	70	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1100	MPa	ISO 527-2/1
Tensile Stress (Yield)	28.0	MPa	ISO 527-2/50
Tensile Strain			ISO 527-2/50
Yield	12	%	
Break	> 50	%	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
0°C	1.7	kJ/m ²	
23°C	4.5	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
0°C	60	kJ/m ²	
23°C	170	kJ/m ²	
Notched Izod Impact Strength			ISO 180/1A
0°C	1.8	kJ/m ²	
23°C	4.0	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	75.0	°C	ISO 75-2/B
1.8 MPa, Unannealed	50.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	130	°C	ISO 306/A
--	72.0	°C	ISO 306/B
Melting Temperature (DSC)	151	°C	ISO 3146
Optical	Nominal Value	Unit	Test Method
Haze (1000 μm)	8.0	%	ASTM D1003

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