Technical Data Sheet

DuClear® QY 80 AV

Polypropylene Random Copolymer

Description

DuClear QY 80 AV is a controlled rheology modified polypropylene random copolymer (produced with a phthalate-free catalyst), suitable for injection moulding applications. The product is clarified and contains an anti-electrostatic agent. DuClear QY 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 QY 80 AV is suitable for: high-speed injection moulding, thin-walled packaging, containers, and house ware.

Quality, Environment and Safety Regulations

Material Safety Data Sheets and other regulatory documents are available on our web site http://www.ducorchem.com.

Properties		Method	Typical Value*	Unit
Physical				
Melt Flow Rate	(230 °C / 2.16 kg)	ISO 1133	100	g/10 min
Mechanical				
Tensile Modulus	(1 mm/min)	ISO 527-2	1100	MPa
Tensile Stress at Yield	(50 mm/min)	ISO 527-2	28	MPa
Tensile Strain at Yield	(50 mm/min)	ISO 527-2	12	%
Tensile Strain at Break	(50 mm/min)	ISO 527-2	> 50	%
Charpy Impact Strength, notched	(+23 °C)	ISO 179/1eA	4.2	kJ/m^2
	(0 °C)	ISO 179/1eA	1.7	kJ/m^2
Charpy Impact Strength, unnotched	(+23 °C)	ISO 179/1eU	170	kJ/m^2
	(0 °C)	ISO 179/1eU	60	kJ/m^2
Izod Impact Strength, notched	(+23 °C)	ISO 180/1A	3.8	kJ/m^2
	(0 °C)	ISO 180/1A	1.7	kJ/m^2
Thermal				
Melting Point, DSC		ISO 3146	151	°C
Heat Deflection Temperature	(1.8 MPa)	ISO 75-2	50	°C
Heat Deflection Temperature	(0.45 MPa)	ISO 75-2	75	°C
Vicat Softening Temperature	(10 N)	ISO 306	130	°C
Vicat Softening Temperature	(50 N)	ISO 306	72	°C
Other Properties				
Haze	(1 mm plaque)	ASTM D1003	8	%
Density		ISO 1183	0.91	g/cm^3

** Typical values; not to be construed as specifications*

Ducor Petrochemicals B.V., POB 1038, 3180AA Rozenburg ZH, the Netherlands

Last updated: Sept. 2015

Web: http://www.ducorchem.com/
Email: sales@ducorchem.com

The information contained herein is to our knowledge accurate and reliable as of the date of publication. Ducor Petrochemicals extends no warranties and makes no representations as to the accuracy or completeness of the information contained herein and assumes no responsibility regarding the consequences of its use or for any printing errors. Our products are intended for sale to industrial and commercial customers. It is the customer's responsibility to inspect and test our products in order to satisfy himself as to the suitability of the products for the customer's particular purpose. The customer is also responsible for the appropriate, safe and legal use, processing and handling of our products.